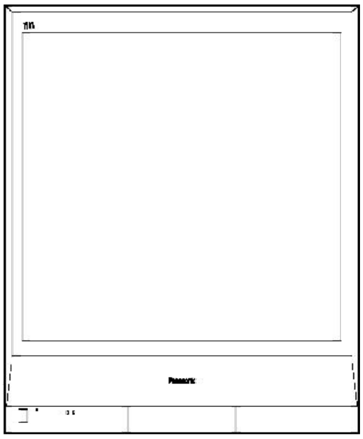
ORDER NO.PCZ0606049CE

Service Manual

Plasma Television

TH-50PV60E / TH-50PX60B

GP9DE Chassis



SPECIFICATIONS

Specifications

Power Source	AC 220-240 V, 50 / 60 Hz
Power Consumption	
Average use	368 W (TH-50PV60E), 377 W (TH-50PX60B)
Standby condition	0.3 W (TH-50PV60E), 0.3 W (TH-50PX60B Without DVB recording) / 20 W (TH-50PX60B With DVB recording)
Plasma Display panel	
Drive method	AC type
Aspect Ratio	16:9
Contrast Ratio	Max 10000:1
Visible screen size	127 cmV
(No. of pixels)	1,106 mm (W) × 622 mm (H) × 1,269 mm (diagonal) 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Sound	
Speaker	12 cm × 6 cm × 2 pcs, 8
Audio Output	20 W (10 W + 10 W), 10% THD
Headphones	M3 (3.5 mm) Jack × 1
PC signals	VGA, SVGA, XGA SXGA .... (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz

Receiving Systems / Band name (TH-50PV60E)

	PAL B, G, H, I, SECAM B, G, SECAM L / L’	
	VHF E2 - E12	**VHF H1 - H2 (ITALY)**
	VHF A - H (ITALY)	**UHF E21 - E69**
	CATV (S01 - S05)	**CATV S1 - S10 (M1 - M10)**
	CATV S11 - S20 (U1 - U10)	**CATV S21 - S41 (Hyperband)**
	PAL D, K, SECAM D, K	
	VHF R1 - R2	**VHF R3 - R5**
	VHF R6 - R12	**UHF E21 - E69**
	PAL 525/60	
	Playback of NTSC tape from some PAL Video recorders (VCR)	
	M.NTSC	
	Playback from M. NTSC Video recorders (VCR)	
[]	**NTSC (AV input only)**	
	Playback from NTSC Video recorders (VCR)	
Receiving Systems / Band name (TH-50PX60B)		
	PAL I :	**UHF E21-68.**
	PAL 525/60 :	**Playback of NTSC tape from some PAL Video recorders (VCR) or NTSC disc playback from DVD player and recorder.**
	DVB :	**Digital terrestrial services via UHF aerial input.**
	M.NTSC :	**Playback from M.NTSC Video recorders (VCR).**
	NTSC (AV input only) :	**Playback from NTSC Video recorders (VCR).**
Aerial - Rear	**VHF / UHF (TH-50PV60E), UHF (TH-50PX60B)**	
Operating Conditions	**Temperature :**	
	0 °C - 40 °C	
	Humidity :	
	20 % - 80 % RH (non-condensing)	
Connection Terminals		
AV1 (Scart terminal)	**21 Pin terminal (Audio/Video in, Audio/Video out, RGB in)**	
AV2 (Scart terminal)	**21 Pin terminal (Audio/Video in, Audio/Video out, S-Video in, Q-Link)**	
AV3 (Scart terminal)	**21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link)**	
AV4		
VIDEO	**RCA PIN Type × 1**	**1.0 V[p-p] (75)**
S-VIDEO	**Mini DIN 4-pin**	**Y:1.0 V[p-p] (75) C:0.286 V[p-p] (75)**
AUDIO L - R	**RCA PIN Type × 2**	**0.5 V[rms]**
Others		
COMPONENT	**Y**	**1.0 V[p-p] (including synchronization)**
	PB, PR	**±0.35 V[p-p]**
HDMI1/2	**TYPE A Connectors**	
PC	**HIGH-DENSITY D-SUB 15PIN**	**R,G,B/0.7 V[p-p] (75)** **HD, VD/TTL Level 2.0 - 5.0 V[p-p] (high impedance)**
AUDIO L - R	**RCA PIN Type × 2**	**0.5 V[rms]**
Output		
AUDIO L - R	**RCA PIN Type × 2**	**0.5 V[rms] (high impedance)**
Dimensions (W × H × D)	**1,210 mm × 818 mm × 95 mm**	
Weight	**40.0 k Net**	

Note

- Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.
- This equipment complies with the EMC standards listed below.
  EN55013, EN61000-3-2, EN61000-3-3, EN55020, EN55022, EN55024.

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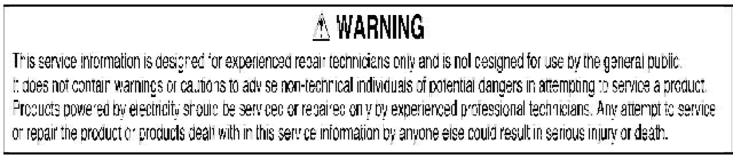
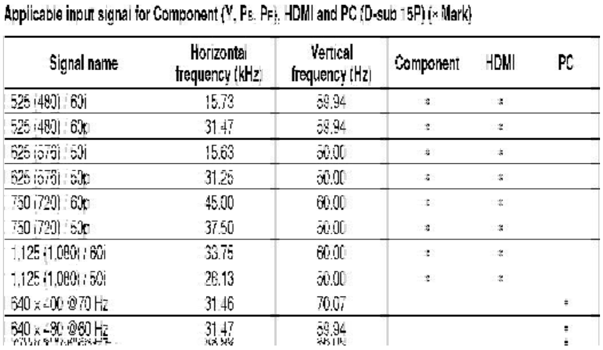


⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. Applicable signals



Applicable input signal for Component (Y, PB, PR), HDMI and PC (D-sub 15P) (× Mark)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) / 60p	31.47	59.94	*	*	
625 (576) / 50i	15.63	50.00	*	*	
625 (576) / 50p	31.25	50.00	*	*	
750 (720) / 60p	45.00	60.00	*	*	
750 (720) / 50p	37.50	50.00	*	*	
1,125 (1,080) / 60i	33.75	60.00	*	*	
1,125 (1,080) / 50i	28.13	50.00	*	*	
640 × 400 @70 Hz	31.46	70.07			*
640 × 480 @60 Hz	31.47	59.94			*

2. Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

2.2. Touch-Current Check

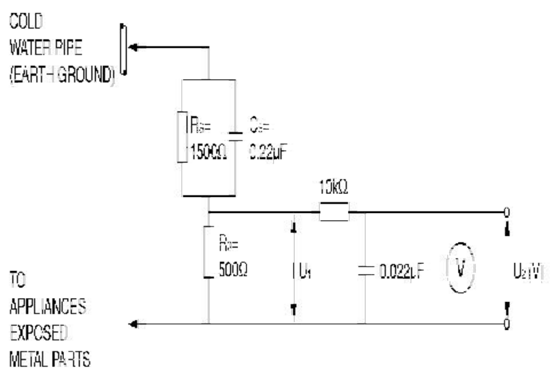
1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reserve the AC plug in the AC outlet and repeat each of the above measure.**
6. **The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2, does not exceed the following values:**
   For a. c.: $U_1 = 35$ V (peak) and $U_2 = 0.35$ V (peak);
   For d. c.: $U_1 = 1.0$ V,

Note:
The limit value of $U_2 = 0.35$ V (peak) for a. c. and $U_1 = 1.0$ V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.
The limit value $U_1 = 35$ V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

7. **In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

Figure 1

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: > 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

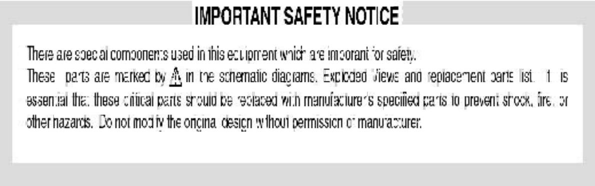
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**

6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**



IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

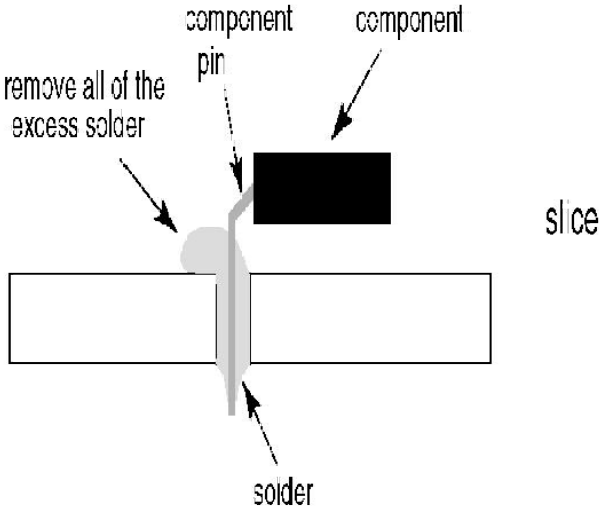
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol PbF stamped on the back of PCB.

Caution

- **Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).**
- **Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).**

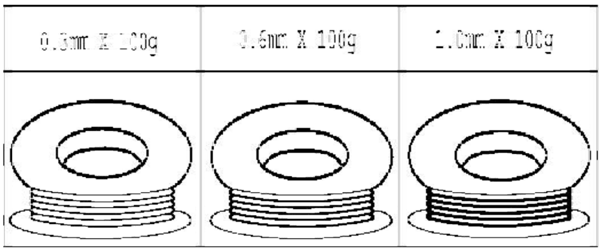
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- **After applying PbF solder to double layered boards, please check the**

component side for excess solder which may flow onto the opposite side. (see figure below)


component pin
component
remove all of the excess solder
slice
solder

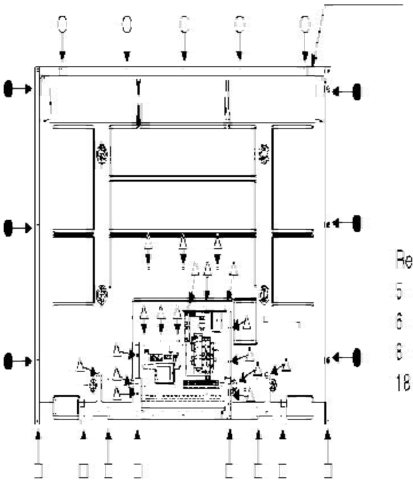
Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.


0.3mm X 100g
0.6mm X 100g
1.0mm X 100g

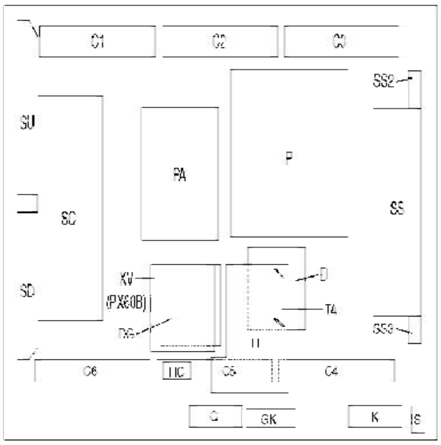
5. Service Hint

Remove the Back Cover



Remove:
5 screws (○) XYN4+F10FJK
6 screws (●) XYN4+F30FJK
8 screws (□) XTB4+12GFJK
18 screws (△) THEL0429

Service Position



Board Name	Function	Board Name	Function
P	Power Supply	C1	Data Driver (Upper Right)
PA	DC-DC Converter, Power SOS, / Speaker out, Audio AMP, Fan Control	C2	Data Driver (Upper Center)
		C3	Data Driver (Upper Left)
H	AV Terminal, AV Switch, MSP	C4	Data Driver (Lower Left)
TA	Tuner	C5	Data Driver (Lower Center)
DG	Digital Signal Processor, Micom, HDMI Interface	C6	Data Driver (Lower Right)
XV	D-TV Interface (PX60B only)	SC	Scan Drive
D	Format Converter, Plasma Ai, Sub-Field Processor	SU	Scan out (Upper)
HC	Jig Connection	SD	Scan out (Lower)
K	Remote receiver, Power LED	SS	Sustain Drive
S	Power Switch	SS2	Sustain Connector (Upper)
G	Front Terminal	SS3	Sustain Connector (Lower)
GK	Key Switch		

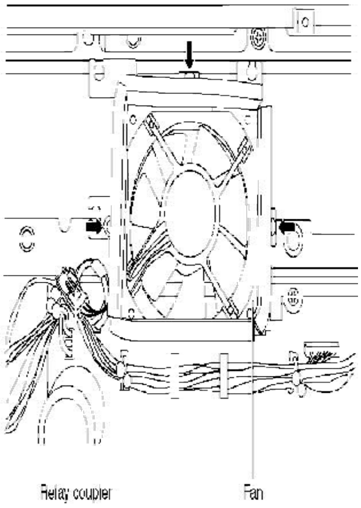
6. Plasma panel replacement method

6.1. Remove the Back cover

1. See Service Hint (Section 5)

6.2. Remove the fan

1. Disconnect the relay couplers.
2. Remove the screws (×3➡ each) and remove the fans.



6.3. Remove the rear terminal cover

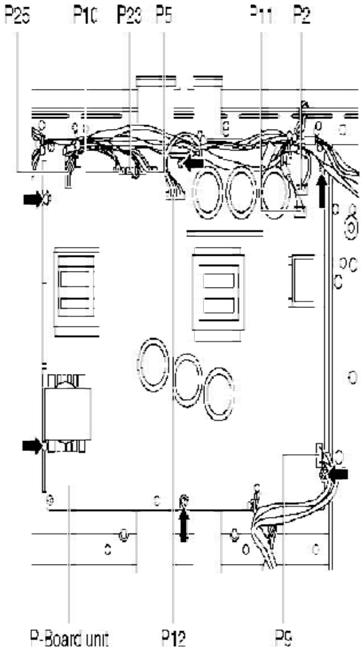
1. Remove the screws (×9 , ×10).
2. Remove the rear terminal cover.

6.4. Remove the P-Board

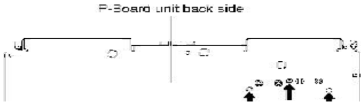
Caution:

To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

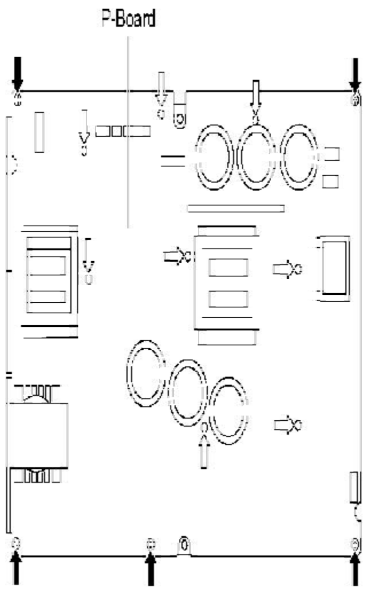
1. **Disconnect the couplers (P2, P5, P9, P10, P11, P12, P23 and P25).**
2. **Remove the screws (×6➡) and remove the P-Board unit.**


P25
P10
P23
P5
P11
P2
P-Board unit
P12
P9

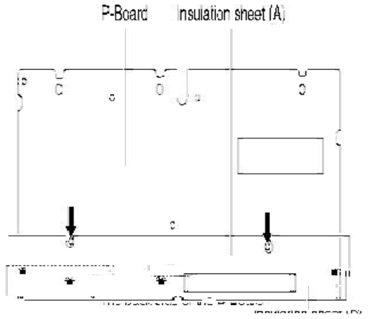
3. **Remove the screws (×9➡) on the back side.**


P-Board unit back side

4. **Remove the screws (×5).**
5. **Remove the molding props (×8).**
6. **Remove the P-Board.**

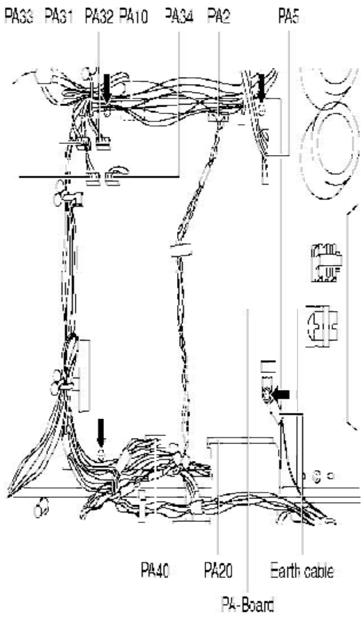


Note:
When assembling the P-Board, the position of each hole of the insulation sheets (A and B) is set to the position of each hole of the P-Board, then assemble them. (marks indicate setting positions.)



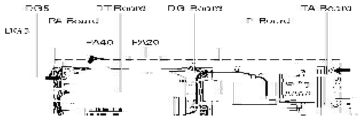
6.5. Remove the PA-Board

1. **Unlock the cable clampers to free the cable.**
2. **Disconnect the couplers (PA2, PA5, PA10, PA31, PA32, PA33, PA34 and PA40).**
3. **Disconnect the flexible cable (PA20).**
4. **Remove the screws (×4   ) and remove the earth cable.**
5. **Remove the PA-Board.**


PA33
PA31
PA32
PA10
PA34
PA2
PA5
PA40
PA20
Earth cable
PA-Board

6.6. Remove the tuner unit

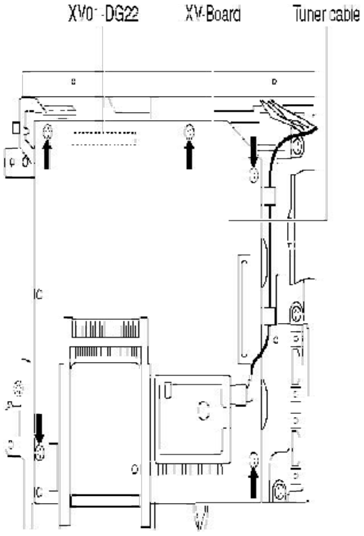
1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (DG5, G51 and PA40).
3. Disconnect the flexible cables (DG3 and PA20).
4. Remove the screws (×4➡) remove the tuner unit.


DG5
DT Board
DG Board
TA Board
PA Board
P Board
DG3
PA40
PA20

6.7. Remove the XV-Board (PX60B)

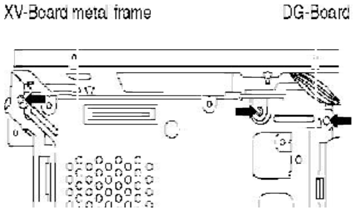
1. Unlock the cable clampers to free the cable.
2. Disconnect the tuner cable.
3. Remove the screws (×5) remove the XV-Board.

(Be careful the coupler (XV01-DG22) when remove the XV-Board.)

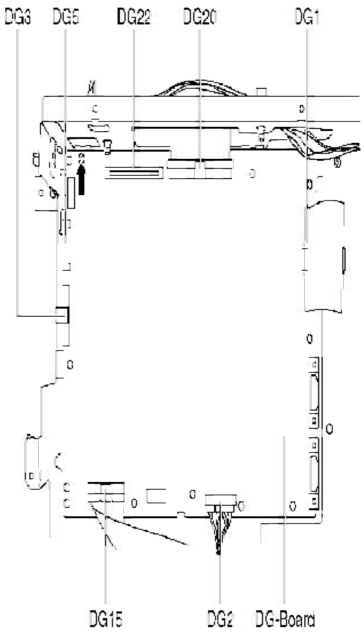

XV01-DG22
XV-Board
Tuner cable

6.8. Remove the DG-Board

1. **Remove the XV-Board (PX60B). (See section 6.7.)**
2. **Remove the screws (×8➡) and remove the XV-Board metal frame (PX60B).**


XV-Board metal frame
DG-Board

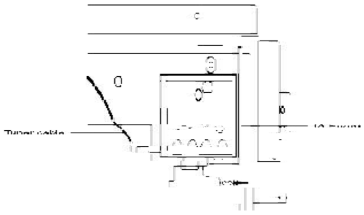
3. **Disconnect the coupler (DG2).**
4. **Disconnect the flexible cables (DG1, DG15 and DG20).**
5. **Remove the screw (×1) remove the DG-Board.**


DG3
DG5
DG22
DG20
DG1
DG15
DG2
DG-Board

6.9. Remove the TA-Board

1. Disconnect the tuner cable.

2. Remove the screw (×1➡) and remove the TA-Board.


Tuner cable

6.10. Remove the H-Board

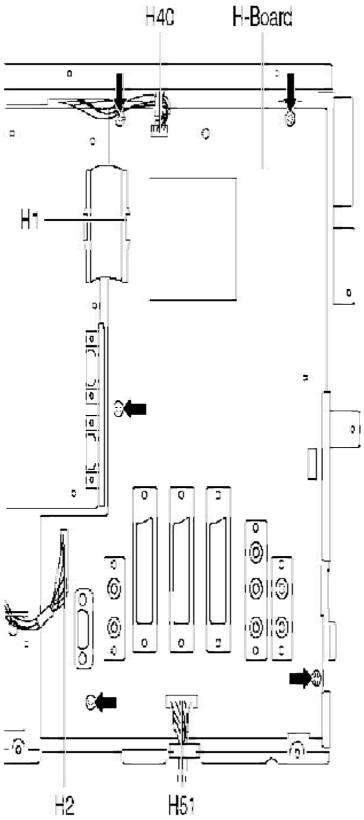
1. Remove the TA-Board.

2. Unlock the cable clampers to free the cable.

3. Disconnect the couplers (H2, H40 and H51).

4. Disconnect the flexible cable (H1).

5. Remove the screws (×5) and remove the H-Board.



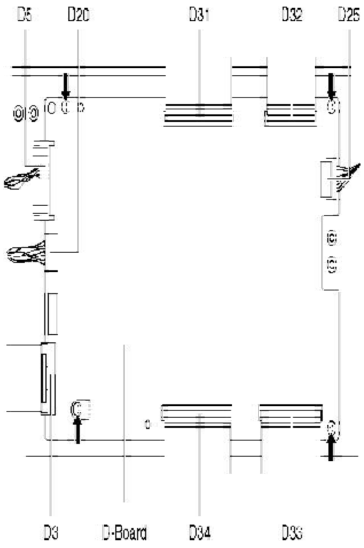
6.11. Remove the HC-Board

1. Disconnect the flexible cable (HC15).
2. Remove the screws (×2➡) and remove the HC-Board.

6.12. Remove the D-Board

1. Remove the tuner unit. (See section 6.6.)
2. Disconnect the couplers (D5, D20 and D25).
3. Disconnect the flexible cables (D3, D31, D32, D33 and D34).

4. Remove the screws (×4➡) and remove the D-Board.

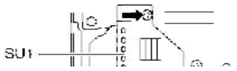

D5
D20
D31
D32
D25
D3
D-Board
D34
D33

6.13. Remove the SU-Board

1. Remove the screws (×3➡).

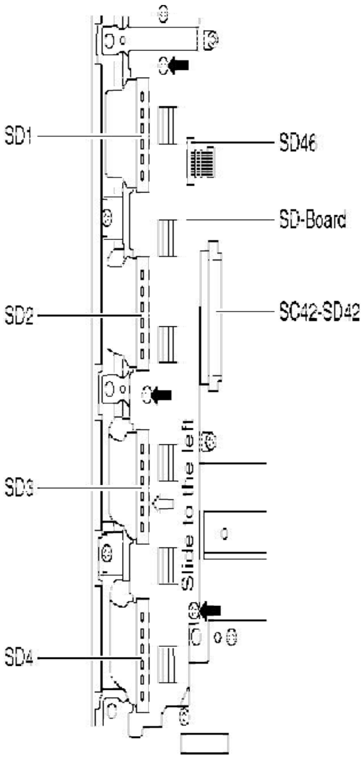
2. Remove the flexible cables (SU1, SU2, SU3 and SU4) and remove the bridge connector (SU45).

3. Slide the SU-Board to the left to disconnect from a coupler (SC41-SU41) on the SC-Board and remove the SU-Board.



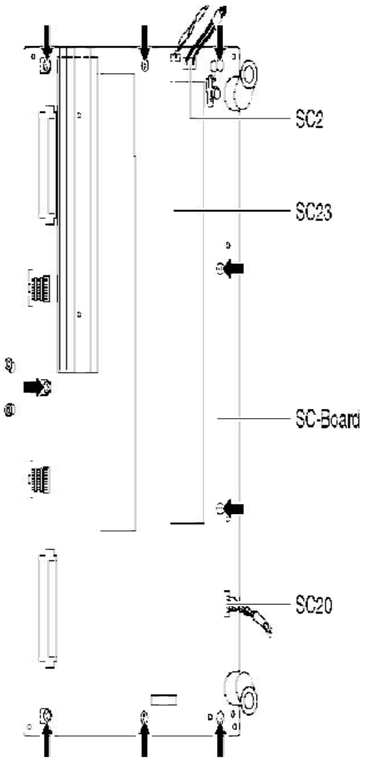
6.14. Remove the SD-Board

1. **Remove the screws (×3➡).**
2. **Remove the flexible cables (SD1, SD2, SD3 and SD4) and remove the bridge connector (SD46).**
3. **Slide the SD-Board to the left to disconnect from a coupler (SC42-SD42) on the SC-Board and remove the SD-Board.**


SD1
SD46
SD-Board
SC42-SD42
SD2
SD3
SD4
Slide to the left

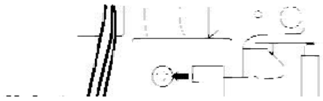
6.15. Remove the SC-Board

1. **Unlock the cable clampers to free the cable.**
2. **Disconnect the couplers (SC2, SC20 and SC23).**
3. **Remove the screws (×9) and remove the SC-Board.**



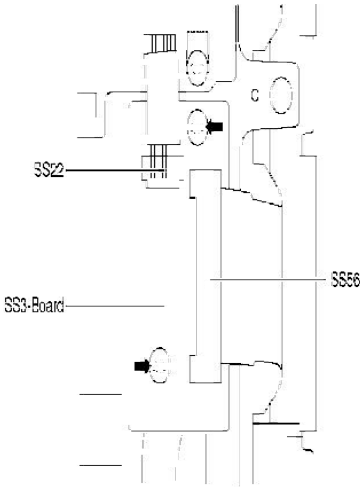
6.16. Remove the SS2-Board

1. Disconnect the coupler (SS23) and disconnect the flexible cable (SS55).
2. Remove the screws (×2➡) and remove the SS2-Board.



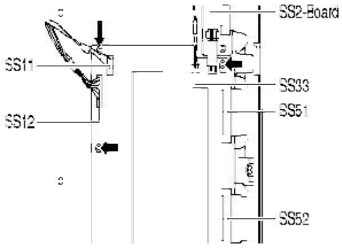
6.17. Remove the SS3-Board

1. Disconnect the coupler (SS22) and disconnect the flexible cable (SS56).
2. Remove the screws (×2) and remove the SS3-Board.


SS22
SS56
SS3-Board

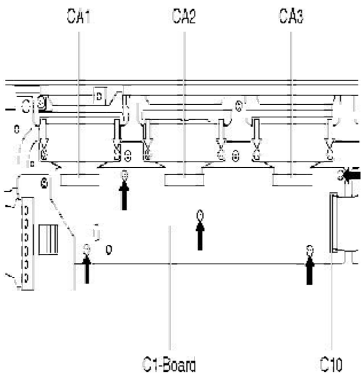
6.18. Remove the SS-Board

1. Remove the SS2-Board and SS3-Board. (See section 6.16. and 6.17)
2. Disconnect the couplers (SS11, SS12, SS33, SS43 and SS44).
3. Disconnect the flexible cables (SS51, SS52, SS53 and SS54).
4. Remove the screws (×7➡) and remove the SS-Board.


SS2-Board
SS11
SS33
SS51
SS12
SS52

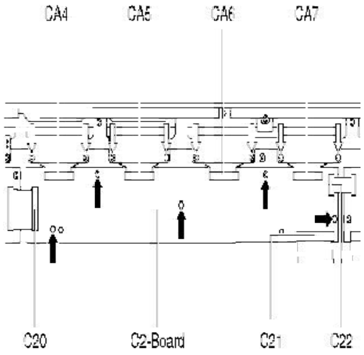
6.19. Remove the C1-Board

1. Remove the flexible cables holder fastening screws (×6).
2. Disconnect the flexible cables (CA1, CA2 and CA3).
3. Disconnect the flexible cable (C10).
4. Remove the screws (×5) and remove the C1-Board.


CA1
CA2
CA3
C1-Board
C10

6.20. Remove the C2-Board

1. Remove the flexible cables holder fastening screws (×8).
2. Disconnect the flexible cables (CA4, CA5, CA6 and CA7).
3. Disconnect the flexible cables (C20, C21 and C22).
4. Remove the screws (×5➡) and remove the C2-Board.

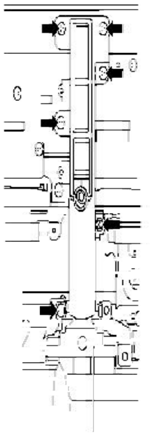

CA4
CA5
CA6
CA7
C20
C2-Board
C21
C22

6.21. Remove the C3-Board

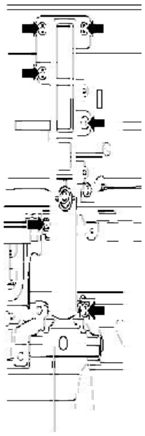
1. Remove the flexible cables holder fastening screws (×8).
2. Disconnect the flexible cables (CA8, CA9, CA10 and CA11).
3. Disconnect the flexible cables (C31 and C32).
4. Disconnect the coupler (C33).
5. Remove the screws (×5) and remove the C3-Board.

6.22. Remove the stand brackets

1. Remove the plasma panel section from the servicing stand and lay on a fiat surface such as a table (covered) with the plasma panel surface facing downward.
2. Remove the stand brackets (left, right) fastening screws (×6 each) and remove the stand brackets (left, right).



Stand bracket (right)



Stand bracket (left)

6.23. Remove the C4-Board

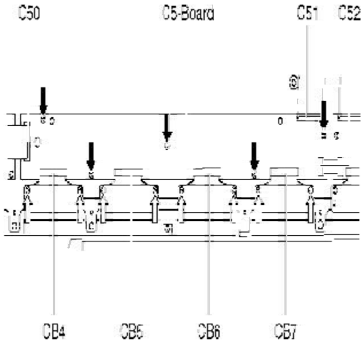
1. Remove the stand bracket (left). (See section 6.22.)
2. Remove the flexible cables holder fastening screws (×8).
3. Disconnect the flexible cables (CB8, CB9, CB10 and CB11).
4. Disconnect the flexible cables (C41 and C42).
5. Disconnect the couplers (C43 and C44).
6. Remove the screws (×5) and remove the C4-Board.

6.24. Remove the C5-Board

1. Remove the flexible cables holder fastening screws (×8).
2. Disconnect the flexible cables (CB4, CB5, CB6 and CB7).

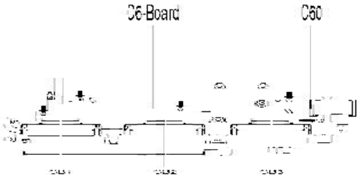
3. Disconnect the flexible cables (C50, C51 and C52).

4. Remove the screws (×5➡) and remove the C5-Board.



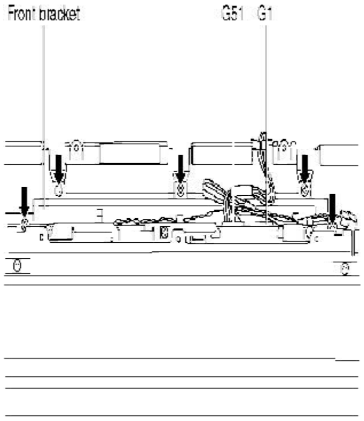
6.25. Remove the C6-Board

1. Remove the stand bracket (right). (See section 6.22.)
2. Remove the flexible cables holder fastening screws (×6).
3. Disconnect the flexible cables (CB1, CB2 and CB3).
4. Disconnect the flexible cable (C60).
5. Remove the screws (×5➡) and remove the C6-Board.



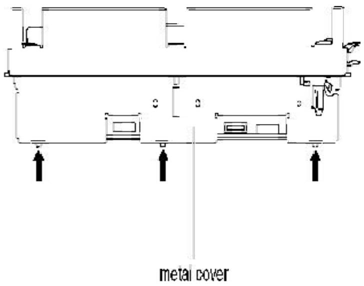
6.26. Remove the front bracket

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (G1 and G51).
3. Remove the screws (×5) and remove the front bracket.

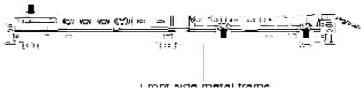

Front bracket
G51
G1

6.27. Remove the G-Board and GK-Board

1. Remove the front bracket. (See section 6.26.)
2. Remove the screws (×3➡) and remove the metal cover.


metal cover

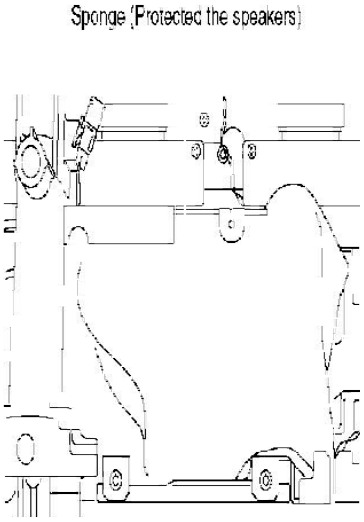
3. Remove the screws (×3➡) and remove the front side metal frame.


Front side metal frame

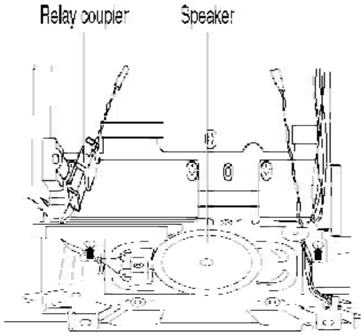
4. Remove the screws (×3) and disconnect the couplers (G3-GK3).
5. Remove the G-Board and GK-Board.

6.28. Remove the speaker L, R

1. **Remove the sponge**

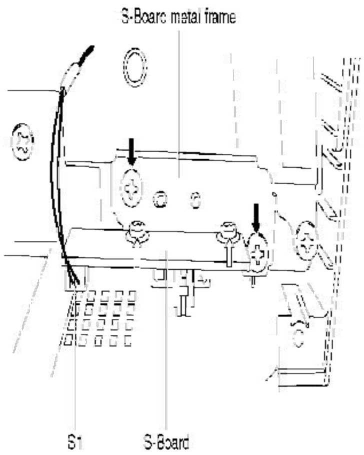

Sponge (Protected the speakers)

2. **Disconnect the relay couplers**
3. **Remove the screws (×2➡ each) and remove the speaker L, R.**


Relay coupler
Speaker

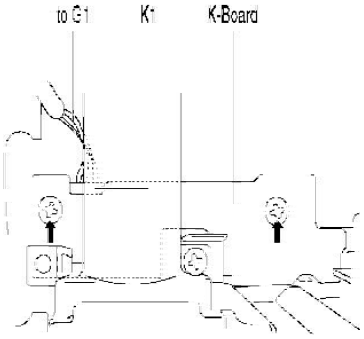
6.29. Remove the S-Board

1. **Disconnect the coupler (S1).**
2. **Remove the screws (×2) and remove the S-Board metal frame.**
3. **Remove the screws (×2) and remove the S-Board.**


S-Board metal frame
S1
S-Board

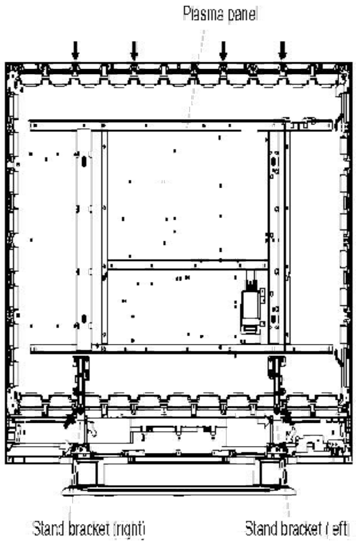
6.30. Remove the K-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the coupler (G1). (See section 6.26.)
3. Remove the screws (×2➡) and remove the K-Board.

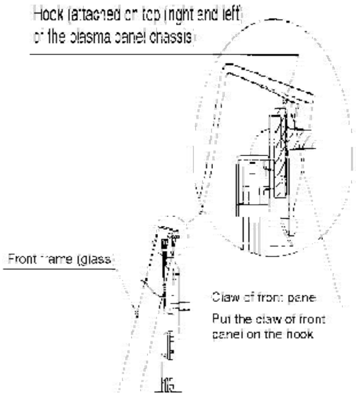

to G1
K1
K-Board

6.31. Remove the Plasma panel section from the Front frame (glass)

1. Remove the front frame and the plasma panel fastening screws (×6).
2. Remove the front frame and the stand brackets fastening screws (×4).


Plasma panel
Stand bracket (right)
Stand bracket (left)

3. **For leaving the plasma panel from the front frame, pull the bottom of the front frame forward, lift, and remove.**


Hook (attached on top (right and left) of the plasma panel chassis)
Front frame (glass)
Claw of front panel
Put the claw of front panel on the hook

6.32. Replace the plasma panel (finished)

1. **Place the new plasma panel (finished) on the flat surface of the table (covered by a soft cloth), with the plasma panel surface facing downward.**
2. **Attach the C1, C2, C3, C4, C5 and the C6-Board, connect the flexible cables (×22) from the Plasma panel to the C1, C2, C3, C4, C5 and the C6**

-Board, and fit the flexible cable holders.

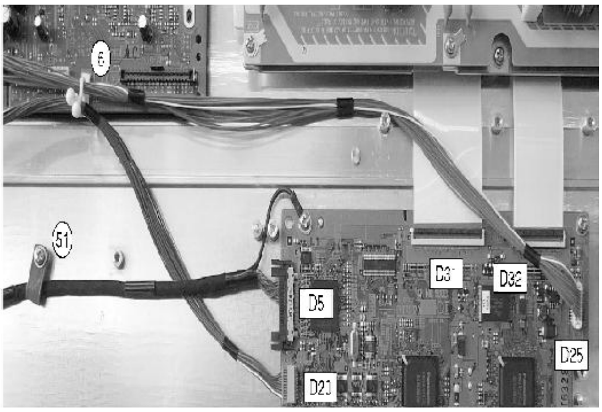
3. **Attach the Hooks (left, right) and fit the stand brackets (L, R) to the new plasma panel.**
4. **Place the plasma panel section on the servicing stand.**
5. **Attach the front frame and each P.C.Board and so on, to the new plasma panel.**

*** When fitting the front frame, be careful to allow any debris, dust or handling residue to remain between the front glass and plasma panel.**

7. Location of Lead Wiring

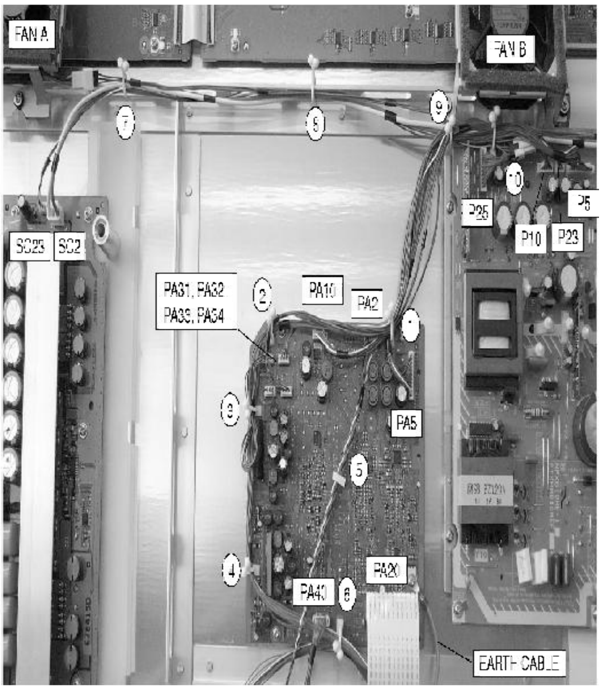
7.1. Lead of Wiring (1)

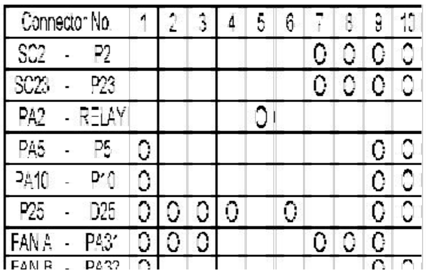
The wire is dressed as shown in figure.



7.2. Lead of Wiring (2)

The wire is dressed as shown in figure.

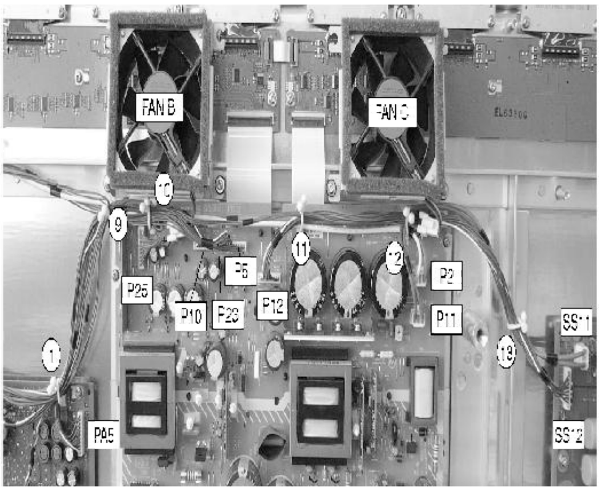

FAN A
FAN B
7
8
9
10
P25
P5
P10
P23
SC23
SC2
PA31, PA32
PA33, PA34
2
PA10
PA2
1
3
PA5
5
4
PA40
6
PA20
EARTH CABLE



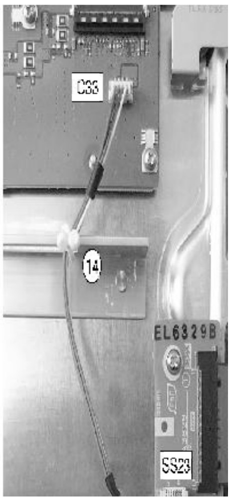
Connector No.	1	2	3	4	5	6	7	8	9	10
SC2 - P2							○	○	○	○
SC23 - P23							○	○	○	○
PA2 - RELAY					○					
PA5 - P5	○								○	○
PA10 - P10	○								○	○
P25 - D25	○	○	○	○		○			○	○
FAN A - PA31	○	○	○				○	○	○	
FAN B - PA32	○								○	○

7.3. Lead of Wiring (3)

The wire is dressed as shown in figure.

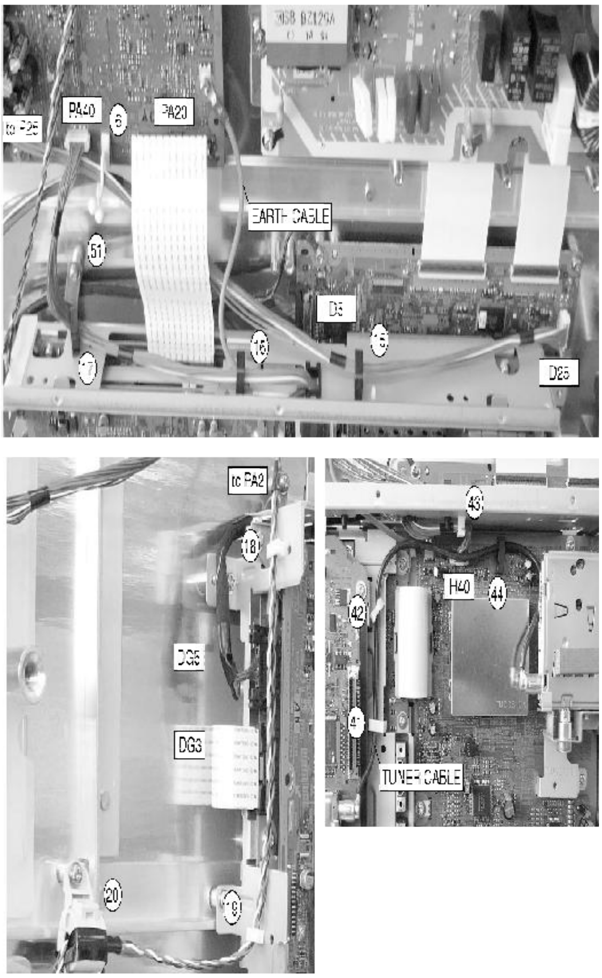

FAN B
FAN C
10
9
11
12
P5
P2
P25
P10
P23
P12
P11
SS11
1
13
SS12
PA5

Connector No.	1	9	10	11	12	13	14
SC2 - P2		O	O	O	O		
SC23 - P23		O	O				
PA5 - P5	O	O	O				
PA10 - P10	O	O	O				
P11 - SS11					O	O	
P12 - SS12				O	O	O	
P25 - D25	O	O	O				
FAN B - PA32	O	O	O				
FAN C - PA34	O	O	O	O	O		
SS23 - C23							O


C23
14
EL6329B
SS23

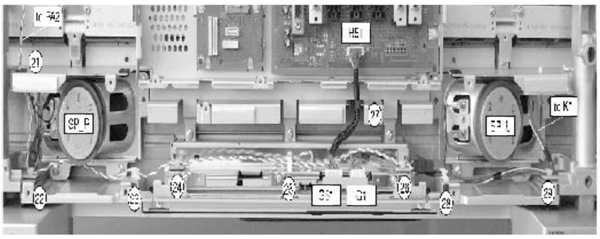
7.4. Lead of Wiring (4)

The wire is dressed as shown in figure.

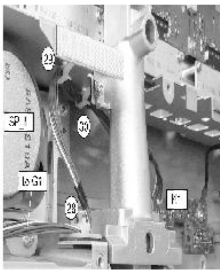

to P25
PA40
6
PA20
EARTH CABLE
51
D5
16
15
17
D25
to PA2
18
DG5
DG3
20
19
43
H40
44
42
41
TUNER CABLE

7.5. Lead of Wiring (5)

The wire is dressed as shown in figure

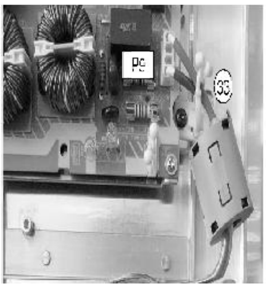

to PA2
21
SP_R
H51
27
SP L
to K1
22
23
24
25
G51
G1
28
26
29

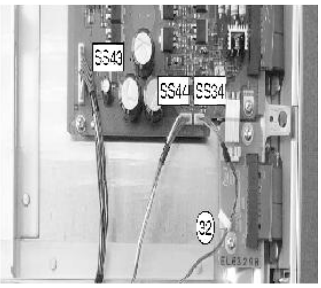
Connector No.	21	22	23	24	25	26	27	28	29	30
PA2 - SP R	O	O								
PA2 - SP L	O	O	O	O	O	O		O		
H51 - G51							O			
K1 - G1						O		O	O	O


29
SP_L
30
to G1
28
K1

7.6. Lead of Wiring (6)

The wire is dressed as shown in figure.

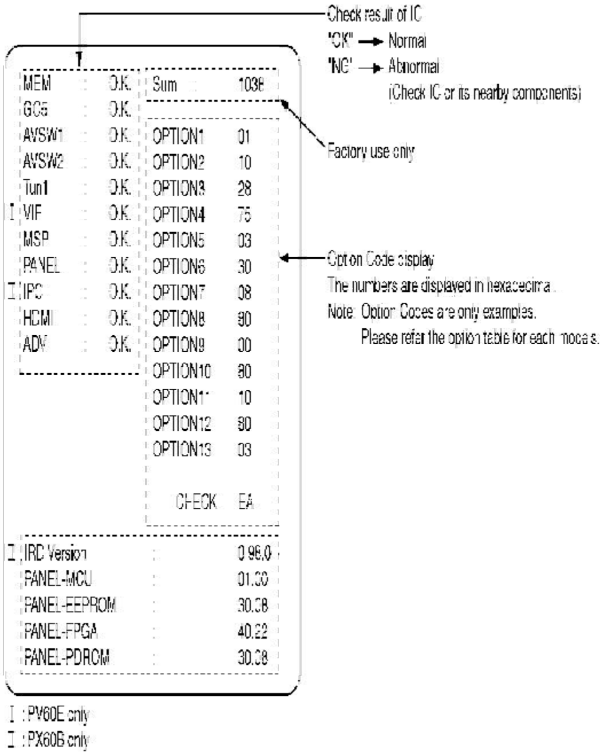



SS43
SS44
SS34
32

8. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the Down button on the customer controls at the front of the set, at the same time pressing the Information button on the remote control, and the screen will show :



```
    MEM    :  O.K.   Sum          103E
    GC5    :  O.K.
    AVSW1  :  O.K.   OPTION1      01
    AVSW2  :  O.K.   OPTION2      10
    Tun1   :  O.K.   OPTION3      28
I   VIF    :  O.K.   OPTION4      75
    MSP    :  O.K.   OPTION5      03
    PANEL  :  O.K.   OPTION6      30
II  IPC    :  O.K.   OPTION7      08
    HDMI   :  O.K.   OPTION8      80
    ADV    :  O.K.   OPTION9      00
                     OPTION10     80
                     OPTION11     10
                     OPTION12     80
                     OPTION13     03

                        CHECK     EA

II  IRD Version     :             0.96.0
    PANEL-MCU       :             01.00
    PANEL-EEPROM    :             30.08
    PANEL-FPGA      :             40.22
    PANEL-PDROM     :             30.08
```

Check result of IC
"OK" → Normal
"NG" → Abnormal
(Check IC or its nearby components)

Factory use only

Option Code display
The numbers are displayed in hexadecimal.
Note: Option Codes are only examples.
Please refer the option table for each models.

I : PV60E only
II : PX60B only

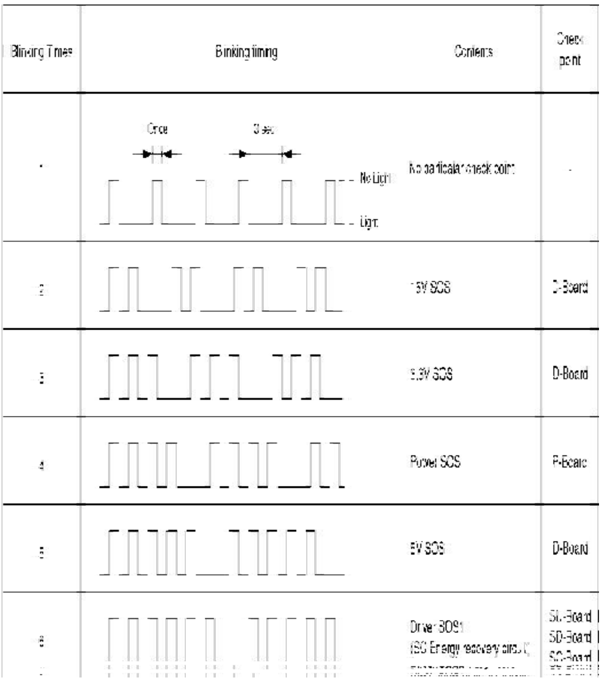
If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref.No.	Description	Board
MEM	IC1102	EEPROM	DG-Board
GC5	IC4037	GC5 Processor	DG-Board
AVSW1	IC3005	Video SW	H-Board
AVSW2	IC2105	Audio SW	H-Board
Tun1	TU001	Tuner	TA-Board
VIF	-	-	-
MSP	IC2106	Multi Sound Processor	H-Board
PANEL	IC9003	Convert Micon	D-Board
IPC	IC8013	PEAKS Lite	XV-Board
HDMI	IC4026	HDMI I/F Receiver	DG-Board
ADV	IC4019	10bit A/D	DG-Board

8.1. Power LED Blinking timing chart

1. **Subject**
   Information of LED Flashing timing chart.

2. **Contents**
   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.



Blinking Times	Blinking timing	Contents	Check point
[illegible]	Once 3 sec No Light Light	No particular check point	-
2		15V SOS	D-Board
3		3.3V SOS	D-Board
4		Power SOS	P-Board
5		5V SOS	D-Board
6		Driver SOS1 (SC Energy recovery circuit)	SC-Board SD-Board SC-Board

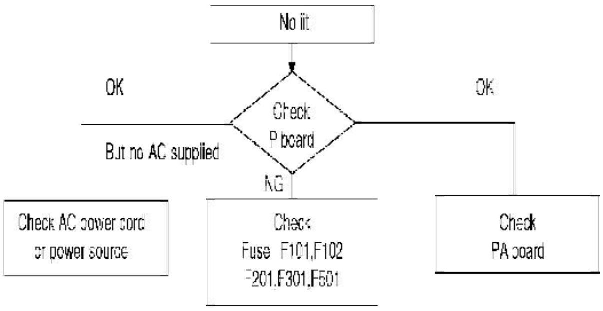
8.2. No Power

[First check point]

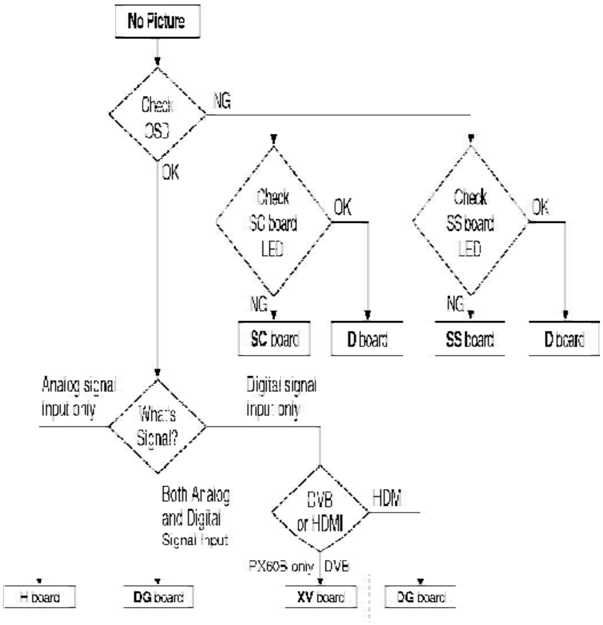
There are following 2 states of No Power indication by power LED.

1. No lit

2. Red is lit then turns red blinking a few seconds later. (See 8.1.)


No lit
OK
Check P board
But no AC supplied
OK
NG
Check AC power cord or power source
Check Fuse F101,F102 F201,F301,F501
Check PA board

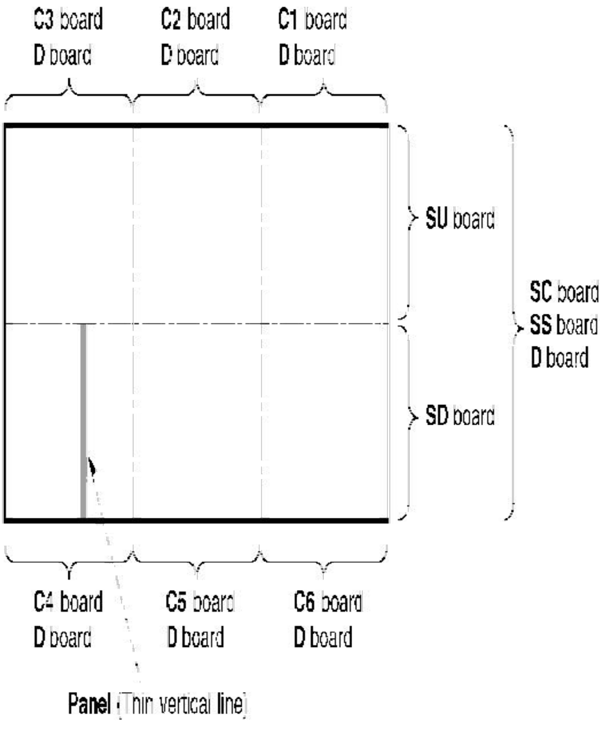
8.3. No Picture


No Picture
Check OSD
NG
OK
Check SC board LED
OK
NG
SC board
D board
Check SS board LED
OK
NG
SS board
D board
Analog signal input only
What's Signal?
Digital signal input only
Both Analog and Digital Signal input
DVB or HDMI
HDMI
PX60S only
DVB
H board
DG board
XV board
DG board

8.4. Local screen failure

Plasma display may have local area failure on the screen. Fig-1 is the possible defect P.C.B. for each local area.

Fig-1



C3 board
D board
C2 board
D board
C1 board
D board
SU board
SC board
SS board
D board
SD board
C4 board
D board
C5 board
D board
C6 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

9. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

9.1. How to enter SERVICE 1

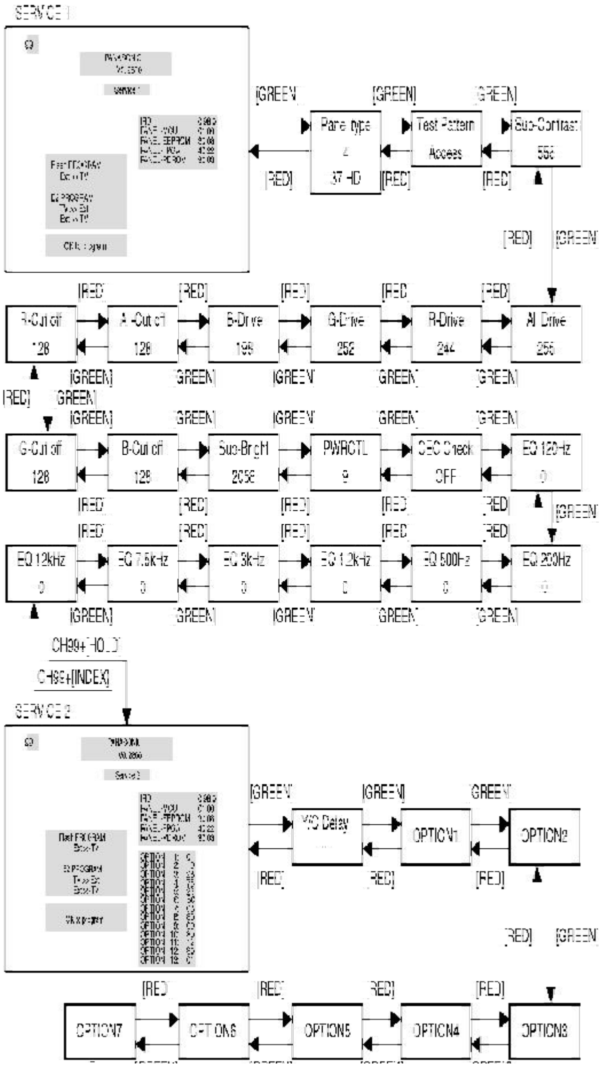
1. **In sound menu, set BASS to MAXIMUM, and set TREBLE to MINIMUM.**
2. **Simultaneously press INDEX button on remote control and DOWN button on the TV set.**

9.2. How to enter SERVICE 2

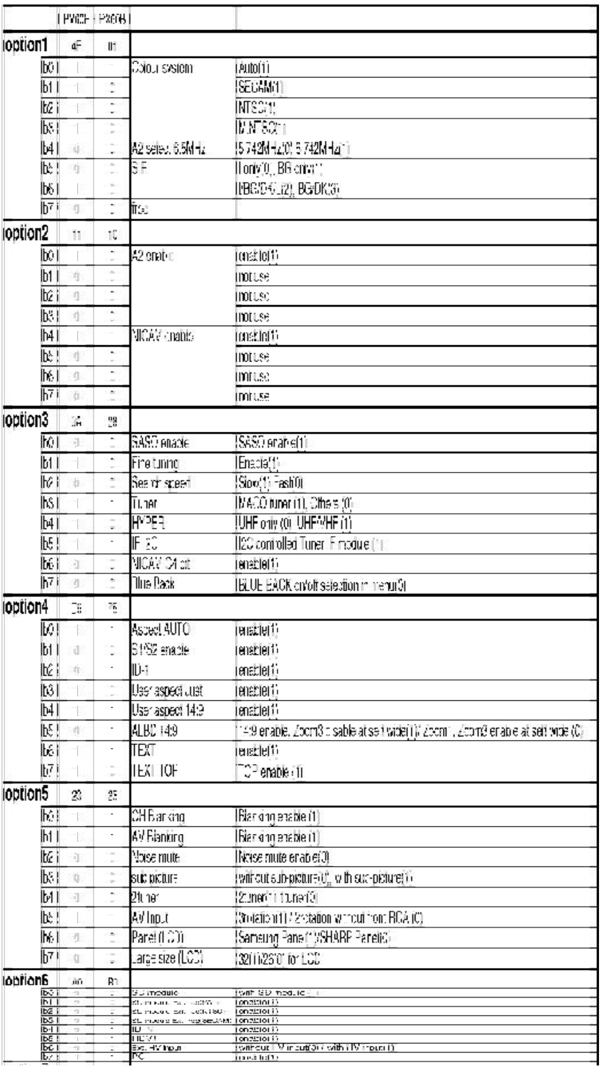
1. **Set the channel to CH99.**
2. **Select the EQ 12kHz.**
3. **Press HOLD button on remote control.**

Note:

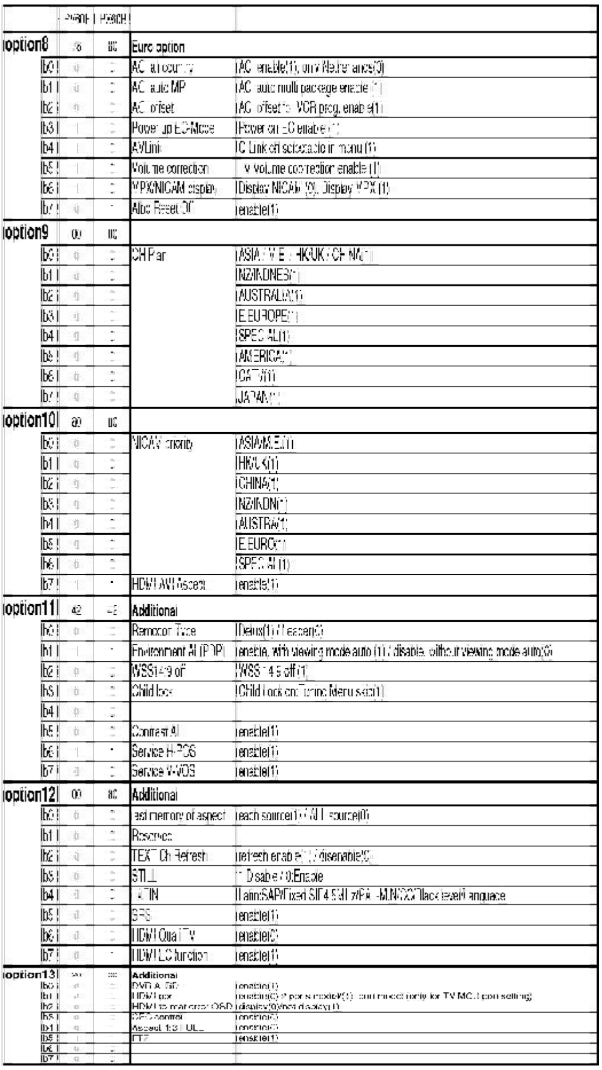
To exit to Service mode, press EXIT or Power button on remote control.


SERVICE 1
[GREEN]
[RED]
Panel type
4
37 HD
Test Pattern
Access
Sub-Contrast
558
R-Cut off
128
A -Cut off
128
B-Drive
199
G-Drive
252
R-Drive
244
All Drive
255
G-Cut off
128
B-Cut off
128
Sub-Bright
2058
PWRCTL
9
CEC Check
OFF
EQ 120Hz
0
EQ 12kHz
0
EQ 7.5kHz
0
EQ 3kHz
0
EQ 1.2kHz
0
EQ 500Hz
0
EQ 200Hz
0
CH99+[HOLD]
CH99+[INDEX]
SERVICE 2
Y/C Delay
OPTION1
OPTION2
OPTION3
OPTION4
OPTION5
OPTION6
OPTION7

9.3. Option Description



		PW0H	PX07B		
option1		4F	01		
	b0	1	1	Colour system	Auto(1)
	b1	1	0		SECAM(1)
	b2	1	0		NTSC(1)
	b3	1	0		M-NTSC(1)
	b4	0	0	A2 select 6.5MHz	5.742MHz(0) 6.742MHz(1)
	b5	0	0	SIF	I only(0), BG only(1)
	b6	1	0		I/BG/DK(2), BG/DK(3)
	b7	0	0	free	
option2		11	10		
	b0	1	0	A2 enable	enable(1)
	b1	0	0		not use
	b2	0	0		not use
	b3	0	0		not use
	b4	1	1	NICAM enable	enable(1)
	b5	0	0		not use
	b6	0	0		not use
	b7	0	0		not use
option3		3A	28		
	b0	0	0	SASO enable	SASO enable(1)
	b1	1	0	Fine tuning	Enable(1)
	b2	0	0	Search speed	Slow(1) Fast(0)
	b3	1	1	Tuner	MACO tuner (1), Others (0)
	b4	1	0	HYPER	UHF only (0), UHF/VHF (1)
	b5	1	1	IF I2C	I2C controlled Tuner IF module (1)
	b6	0	0	NICAM C4 ot	enable(1)
	b7	0	0	Blue Back	BLUE BACK on/off selection in menu(0)
option4		D9	75		
	b0	1	1	Aspect AUTO	enable(1)
	b1	0	0	S1/S2 enable	enable(1)
	b2	0	1	ID-1	enable(1)
	b3	1	0	User aspect Just	enable(1)
	b4	1	1	User aspect 14:9	enable(1)
	b5	0	1	ALBC 14:9	14:9 enable, Zoom3 disable at set wide(1)/ Zoom1, Zoom3 enable at set wide (0)
	b6	1	1	TEXT	enable(1)
	b7	1	0	TEXT TOP	TOP enable (1)
option5		23	25		
	b0	1	1	CH Blanking	Blanking enable (1)
	b1	1	1	AV Blanking	Blanking enable (1)
	b2	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	sub picture	without sub-picture(0), with sub-picture(1)
	b4	0	0	2tuner	2tuner(1) 1tuner(0)
	b5	1	1	AV Input	3station(1)/2station without front RCA (0)
	b6	0	0	Panel (LCD)	Samsung Panel(1)/SHARP Panel(0)
	b7	0	0	Large size (LCD)	32(1)/26(0) for LCD
option6		A0	B1		
	b0	0	0	SD module	with SD module(1)
	b1	0	0	[illegible]	[illegible]
	b2	0	0	[illegible]	[illegible]
	b3	0	0	[illegible]	[illegible]
	b4	0	1	ID [illegible]	[illegible]
	b5	1	1	[illegible]	[illegible]
	b6	0	0	Ext. HV Input	without HV input(0) / with HV input(1)
	b7	1	1	PC	[illegible]



		P50H	P50CH		
option8		78	0C	**Euro option**	
	b0	0	0	AC all country	AC enable(1), only Netherlands(0)
	b1	0	0	AC auto MP	AC auto multi package enable(1)
	b2	0	0	AC offset	AC offset for VCR prog. enable(1)
	b3	1	0	Power up EC-Mode	Power on EC enable(1)
	b4	1	0	AVLink	AV Link off selectable in menu (1)
	b5	1	0	Volume correction	AV volume correction enable (1)
	b6	1	0	VPX/NICAM display	Display NICAM (0), Display VPX (1)
	b7	0	1	Auto Reset Off	enable(1)
option9		00	0C		
	b0	0	0	CH Plan	ASIA/M.E./HK/UK/CHINA(1)
	b1	0	0		NZ/INDNES(1)
	b2	0	0		AUSTRALIA(1)
	b3	0	0		E.EUROPE(1)
	b4	0	0		SPECIAL(1)
	b5	0	0		AMERICA(1)
	b6	0	0		CATV(1)
	b7	0	0		JAPAN(1)
option10		a0	0C		
	b0	0	0	NICAM priority	ASIA/M.E.(1)
	b1	0	0		HK/UK(1)
	b2	0	0		CHINA(1)
	b3	0	0		NZ/INDN(1)
	b4	0	0		AUSTRA(1)
	b5	0	0		E.EURO(1)
	b6	0	0		SPECIAL(1)
	b7	1	1	HDMI AVI Aspect	enable(1)
option11		42	42	**Additional**	
	b0	0	0	Remocon Type	Delux(1)/Leader(0)
	b1	1	1	Environment AI (PDP)	enable, with viewing mode auto (1) / disable, without viewing mode auto(0)
	b2	0	0	WSS14:9 off	WSS 14:9 off (1)
	b3	0	0	Child lock	Child Lock on Tuning Menu set(1)
	b4	0	0		
	b5	0	0	Contrast AI	enable(1)
	b6	1	1	Service H-POS	enable(1)
	b7	0	0	Service V-POS	enable(1)
option12		00	8C	**Additional**	
	b0	0	0	Last memory of aspect	each source(1) / ALL source(0)
	b1	0	0	Reserved	
	b2	0	0	TEXT Ch Refresh	refresh enable(1) / disenable(0)
	b3	0	0	STILL	1:Disable / 0:Enable
	b4	0	0	LATIN	Latin:SAP/Fixed SIF4.5MHz/PAL-M,N/CC/Black level/Language
	b5	0	0	SRS	enable(1)
	b6	0	0	HDMI QualiTV	enable(0)
	b7	0	1	HDMI LC function	enable(1)
option13		[illegible]	[illegible]	**Additional**	
	b0	0	0	DVD A.[illegible]	enable(1)
	b1	0	0	HDMI por	enable(0)/2 ports mode(1) [illegible] only for TV MCU port setting)
	b2	0	0	HDMI format error OSD	display(0)/not display(1)
	b3	0	0	CEC control	enable(0)
	b4	0	0	Aspect 4:3 FULL	enable(0)
	b5	1	0	ETZ	enable(1)
	b6	0	0		
	b7	0	0		

10. Adjustment Procedure

10.1. Driver Set-up

10.1.1. Item / Preparation

1. Input a white signal to plasma video input.

2. Set the picture controls as follows.
Picture menu: Dynamic
PNR: OFF
Aspect: 16:9

Caution

1. First perform Vsus adjustment.

2. Confirmation of Vscn voltage should be performed after confirmation of Vad adjustment.

When Vad=-105V, Voltage of Vscn is 35V ±4V.

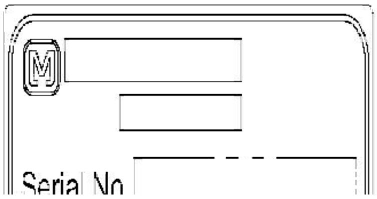
10.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.
Check or adjust the following voltages with the multimeter.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
Ve	TPVE (SS)	Ve ± 2V	VR6000 (SS)	*
Vset	TPVSET (SC)	280V ± 7V	Fixed	
Vad	TPVAD (SC)	-105V ± 1V	VR6600 (SC)	
Vscn	TPVSCN (SC)	Vad+140V ± 4V	Fixed	
Vda	TPVDA (SS)	75V ± 1V	Fixed	

***See the Panel label.**

Panel Label information



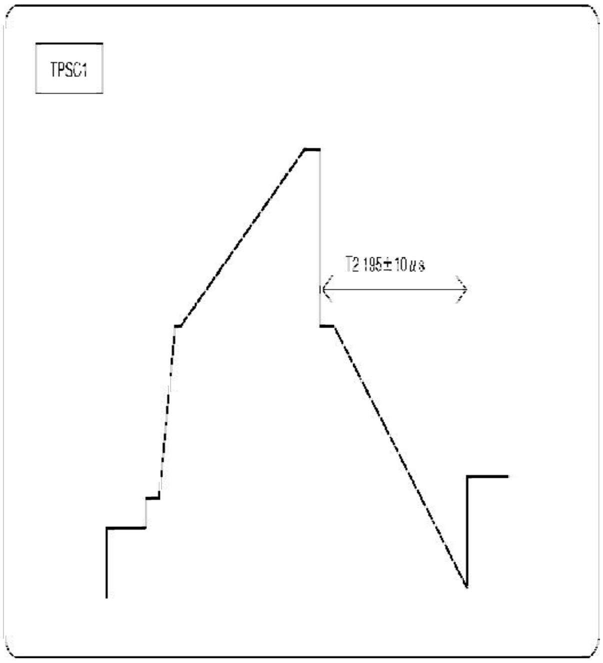
10.2. Initialization Pulse Adjust

1. Input the White signal to plasma video input.

2. Set the picture controls as follows.
Picture menu : Dynamic
PNR: OFF
Aspect : 16:9

3. Connect Oscilloscope to TPSC1 (T2) and adjust VR6602 for 195+10 Sec.

	Test point	Volume	Level
T2	TPSC1 (SC)	VR6602 (SC)	195 ± 10 Sec



10.3. P.C.B. (Printed Circuit Board) exchange

10.3.1. Caution

1. **To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.**

10.3.2. Quick adjustment after P.C.B. exchange

Adjust the following voltages with the multimeter.

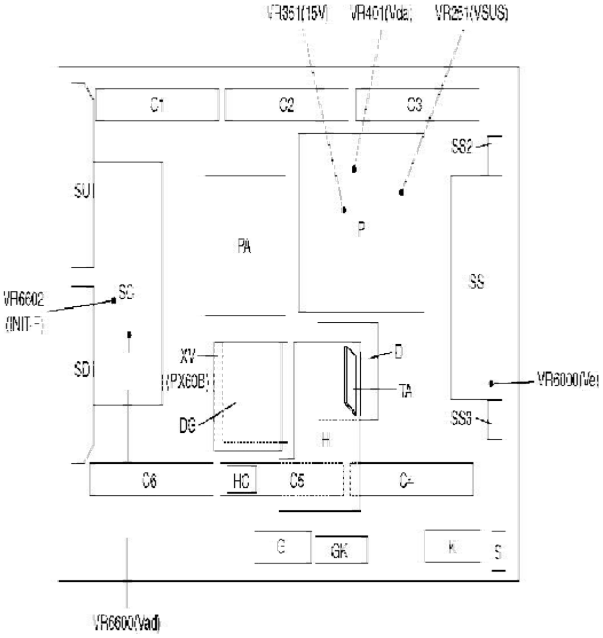
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
SC Board	Vad	TPVAD (SC)	-105V ± 1V	VR6600 (SC)	
SS Board	Ve	TPVE (SS)	Ve ± 2V	VR6000 (SS)	*
D, DG Board	White blance and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

***See the Panel label.**

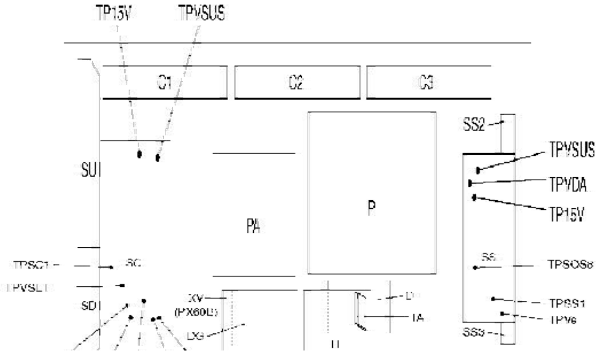
Caution:

Absolutely do not reduce Vsus below Ve not to damage the P.C.B.

10.4. Adjustment Volume Location


VR351(15V)
VR401(Vda)
VR251(VSUS)
C1
C2
C3
SS2
SU
P
PA
SS
VR6602
(INIT-F)
SC
SD
XV
(PX60B)
D
TA
VR6000(Ve)
DG
SS3
H
C6
HC
C5
C4
G
GK
K
S
VR6600(Vad)

10.5. Test Point Location


TP15V
TPVSUS
C1
C2
C3
SS2
TPVSUS
TPVDA
TP15V
SU
P
PA
TPSC1
SC
TPVSL
SS
TPSOS8
SD
XV
(PX60B)
D
TA
TPSS1
TPV6
DG
H
SS3

11. Adjustment

11.1. PAL panel white balance adjustment

Instrument Name	Connection	Remarks
-W/B pattern -Color analyzer (Minolta CA-100 or equivalent)	RF input Panel surface	User setting: Normal

Procedure	Remarks
-Asing time is longer than 15min. -Make sure the front panel to be used on the final set is fitted. -Make sure a color signal is not being shown before adjustment. -Put the color analyzer where there is little colour variation. Complete the adjustment within 10 minutes after the turn on electricity. Turn on the power supply again when it is not possible to complete it by aging etc.	Picture menu : Dynamic ASPECT : 16:9
1. Display the white balance pattern. 2. Check that the color balance is “cool”. 3. Enter the <Service1> mode. 4. Select “G-CUTOFF” item, using the color-key “Red” or “Green”, and set to “128”, using the color-key “Yellow” or “Blue”. Also, “B-CUTOFF” and “R-CUTOFF” set to “128”. 5. Set “G-DRIVE” at “208”. 6. Touch the signal receiver of color analyzer to the highlight window’s center, and adjust B drive and R drive so x, y become the “Color balance Cool” in the below table. 7. Set “ALL-DRIVE” to “252”. 8. Set colorbalance to “Normal”. 9. Fix G cutoff , B cutoff and R cutoff at “128”. 10. Fix G drive at “208”. 11. Adjust B drive and R drive so the highlight window’s x, y become the “Color balance “Normal” in the below table. 12. Set “ALL-DRIVE” to “252”. 13. Set color balance to “Warm”. 14. Set G cutoff, B cutoff and R cutoff to “128”. 15. Set G drive to “208”. 16. Adjust B drive and R drive so the highlight window’s x, y become the “Color balance Warm” shown in the below table. 17. Set “ALL-DRIVE” to “252”.	-Highlight section Signal amplitude 75%

11.2. HD white balance adjustment

Instrument Name	Connection	Remarks
-1080i W/B Pattern -Color analyzer(Minolta CA-100 or equivalent)	-RF input -Panel surface	User setting: Normal
Procedure		**Remarks**

Instrument Name	Connection	Remarks

-Asing time is longer than 15min.

-Make sure the front panel to be used on the final set is fitted.

-Make sure a color signal is not being shown before adjustment.

-Put the color analyzer where there is little colour variation.

Complete the adjustment within 10 minutes after the turn on electricity. Turn on the power supply again when it is not possible to complete it by aging etc.

1. Display the white balance pattern.
2. Check that the color balance is “cool”.
3. Enter the <Service1> mode.
4. Select “G-CUTOFF” item, using the color-key “Red” or “Green”, and set to “128”, using the color-key “Yellow” or “Blue”.
Also, “B-CUTOFF” and “R-CUTOFF” set to “128”.
5. Set “G-DRIVE” at “208”.
6. Touch the signal receiver of color analyzer to the highlight window’s center, and adjust B drive and R drive so x, y become the “Color balance Cool” in the below table.
7. Set “ALL-DRIVE” to “252”.
8. Set colorbalance to “Normal”.
9. Fix G cutoff , B cutoff and R cutoff at “128”.
10. Fix G drive at “208”.
11. Adjust B drive and R drive so the highlight window’s x, y become the “Color balance “Normal” in the below table.
12. Set “ALL-DRIVE” to “252”.
13. Set color balance to “Warm”.
14. Set G cutoff, B cutoff and R cutoff to “128”.
15. Set G drive to “208”.
16. Adjust B drive and R drive so the highlight window’s x, y become the “Color balance Warm” shown in the below table.
17. Set “ALL-DRIVE” to “252”.

Table 1 Color balance target value

Picture menu: Dynamic
ASPECT:16:9

-Highlight section
Signal amplitude 75%

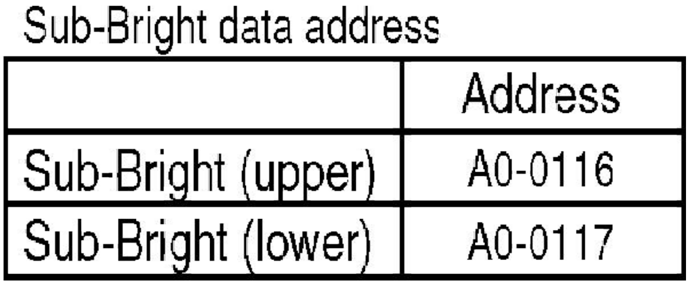
*** The Color balance COOL differs from Japanese model values.**

11.3. Sub bright adjustment

Instrument Name	Connection	Remarks
1. PAL signal generator (or RF)	Connect to the input terminal	User setting: Normal

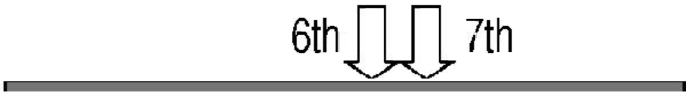
Procedure	Remarks
-Color balance adjustment is finished for each signal. -Do adjustments in a dark room. -Complete the adjustment within 10 minutes after the turn on electricity. Turn on the power supply again when it is not possible to complete it by aging etc. 1. Display the 10 step gray-scale pattern for adjusting subbright from video input. 2. Use "Sub-Bright" in the <Sevice1> mode to adjust so the 6th section shows up and the 7th fades away.	Picture menu: Dynamic Color balance: Normal ASPECT: 16:9

Data



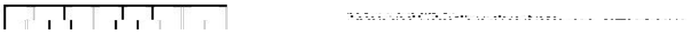
Sub-Bright data address

	Address
Sub-Bright (upper)	A0-0116
Sub-Bright (lower)	A0-0117



11.4. ABL adjustment

Instrument Name	Connection	Remarks
1. HD signal emitter (or Leader : 1080i/No.9 signal) 2. Wattmeter	**COMPONENT input terminal** **Connect the AC power of the set to the wattmeter.**	

Procedure	Remarks
-Make sure the set is aged for 30 minutes or more before adjustment. (Do not switch off during or after aging.) -Voltage 230V 50Hz (variation within 1%) -Volume at minimum and screen size at "16:9" Component input, dynamic, standard 1. Connect the set's AC power to the wattmeter. 2. Input the signal (top half: color bar, Bottom half :Horizontal 10steps bar). 3. Select the "PWRCTL" item in the <Service1> mode. 4. Adjust PWRCTL so the set's power consumption is TH-50PV60E 438 ±10W TH-50PX60B 447 ±10W **Remarks** 1. The initial data are Data address: A0-0102 Default data: 0×00 2. The power and data are in reverse relationship. (Lower the data to raise the power.) -Raising direction (↑): 0 → 255, 254, 253..... -Lowering direction (↓): 0 → 1, 2, 3..... 3. There is a possibility that the adjustment value can do two places, adjust it in that case, that the value of PWRCTL is large. 	

11.5. Sub-Contrast adjustment

Name of measuring instrument	Connection	Remarks
RF generator **Base Band generator**		
Preparation (AV)		**Remarks**
1. Receive AV1 (PAL 100% Full White or Split Colour bar shown as below) . 2. Goes into service mode, choose Sub-Contrast, and it checks that data value is 512. (It checks that an initial value is a default)		
Adjustment of AV system		**Remarks**
1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to white. 4. End.		
Preparation (RF)		**Remarks**
1. Receive RF (PAL 100% Full White or Split Colour bar shown as below.) 2. Goes into service mode, choose Sub-Contrast, and it checks that data value is 512. (It checks that an initial value is a default)		
Adjustment of RF system		**Remarks**
1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to white. 4. End.		
Preparation (HD)		**Remarks**
1. Receive Component (1080i/ 60Hz or 1080i/ 50Hz, 100% Full White or Split colour bar as shown below.) 2. Goes into service mode, choose Sub-Contrast, and it checks that data value is 384. (It checks that an initial value is a default)		
Adjustment of HD system		**Remarks**
1. The colour key yellow button of remote control is pushed. 2. The OSD character of sub-contrast becomes red. (Inside under automatic adjustment) 3. The OSD character of sub-contrast returns to white. 4. End.		

12. Hotel mode

1. Purpose

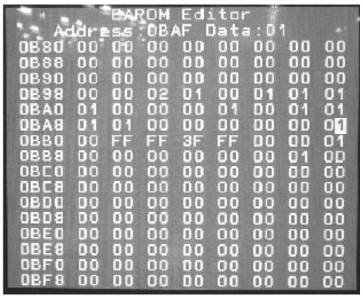
Restrict a function for hotels.

2. Access command

- **Enter to the Service 2 Mode.**
- **Press Information button on remote control and entry to the EAROM EDITOR Mode.**
- **Press the RED/GREEN button to step up/down through the**

address.

- Press the YELLOW/BLUE button to step left/right through the address.
- Press the PROGRAMME UP/DOWN button to step up/down through the page.
- Press the VOLUME UP/DOWN button to change the function values.
- Set the data of EEPROM(ADDRESS 0BAF) to 01.
- Press the OK button to memorize the data.



```
           EAROM Editor
     Address:0BAF Data:01
0B80 00 00 00 00 00 00 00 00
0B88 00 00 00 00 00 00 00 00
0B90 00 00 00 00 00 00 00 00
0B98 00 00 02 01 00 01 01 01
0BA0 01 00 00 00 01 00 01 01
0BA8 01 01 00 00 00 00 00 01
0BB0 00 FF FF 3F FF 00 00 01
0BB8 00 00 00 00 00 00 01 0D
0BC0 00 00 00 00 00 00 00 00
0BC8 00 00 00 00 00 00 00 00
0BD0 00 00 00 00 00 00 00 00
0BD8 00 00 00 00 00 00 00 00
0BE0 00 00 00 00 00 00 00 00
0BE8 00 00 00 00 00 00 00 00
0BF0 00 00 00 00 00 00 00 00
0BF8 00 00 00 00 00 00 00 00
```

Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

It can be made Hotel mode.

3. Exit command

- First, set the data of EEPROM(ADDRESS 0BAF) to 00.
  Next, Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.
  Then, it is no longer hotel mode.

4. Access command to the Hotel mode setup menu

- Prerequisite : It is conditions that the data of EEPROM(ADDRESS 0BAF) is 01.
  In order to display the Hotel mode setup menu, please enter the following command (within 2 second).
  [[TV]:down + [REMOTE]:TV/AV(3 times)]
  Then, the Hotel mode setup menu is displayed.

5. Explain the Hotel mode setup menu

item	Function
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : Off/TV/AV1/AV2/AV2S/AV3/Av3S/AV4/ Av4S/Component/PC/HDMI1/HDMI2 -Off: give priority to a last memory. However, Euro model is compulsorily set to TV. -AVnS/AVnC: only Euro model selectable -PC: selectable with VGA option
Initial VOL level	Adjust the volume when each time power is switched on. Selection/Range : Off/0 to 63 -Off: give priority to a last memory
Maximum VOL level	Adjust maximum volume. Range : 0 to 63
Initial POS	Select programme number. Selection : Off/0 to 99 -Off: give priority to a last memory
Button lock	Select local key conditions. Selection : Off/SETUP/MENU/All -Off: altogether valid -SETUP: only F-key is invalid (Tuning guide(menu) can not be selected.) -MENU: only F-key is invalid (only Volume/Mute can be selected.) -All: altogether invalid.
Remote lock	Select remote control key conditions. Selection : Off/SETUP/MENU -Off: altogether valid -SETUP: only Setup menu is invalid -MENU: Picture/Sound/Setup menu are invalid

6. To exit the Hotel mode

Disconnect AC power cord from wall outlet

13. Conductor Views

13.1. P-Board

13.2. PA-Board

13.3. H-Board

13.4. G and TA-Board

13.5. GK, HC, K and S-Board

13.6. DG-Board

13.7. XV-Board (PX60B)

13.8. D-Board

13.9. C1-Board

13.10. C2-Board

13.11. C3-Board

13.12. C4-Board

13.13. C5-Board

13.14. C6-Board

13.15. SC-Board

13.16. SU-Board

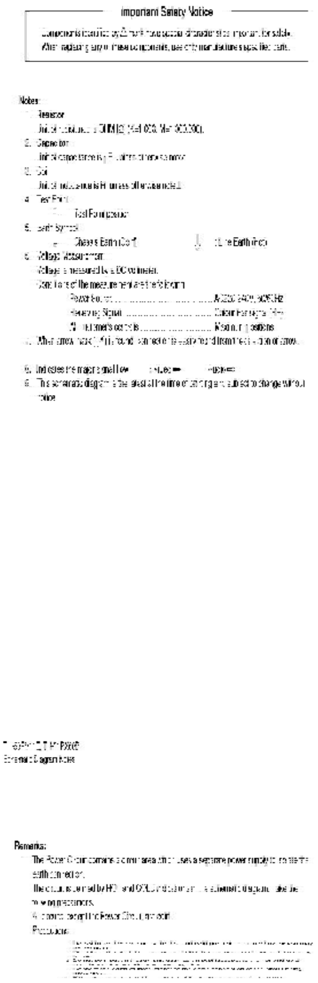
13.17. SD-Board

13.18. SS-Board

13.19. SS2 and SS3-Board

14. Schematic and Block Diagram

14.1. Schematic Diagram Notes



Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Notes:

1. Resistor
   Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).
2. Capacitor
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   Test Point position
5. Earth Symbol
   Chassis Earth (Cold)   Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power source .... AC 220-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↑) is found, connection is easy to find from the direction of arrow.
8. Indicates the major signal flow: Video ⟹ Audio ⟹
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

TH-[illegible]PX60B
Schematic Diagram Notes

Remarks:

The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits except the Power Circuit are cold.
Precautions:
[illegible]

14.2. Main Block Diagram

14.3. P-Board Block Diagram

14.4. P-Board (1 of 2) Schematic Diagram

14.5. P-Board (2 of 2) Schematic Diagram

14.6. PA-Board Block Diagram

14.7. PA-Board (1 of 3) Schematic Diagram

14.8. PA-Board (2 of 3) Schematic Diagram

14.9. PA-Board (3 of 3) Schematic Diagram

14.10. H and TA-Board Block Diagram

14.11. G, GK, GS, HC and K-Board Block Diagram

14.12. H-Board (1 of 3)Schematic Diagram

14.13. H-Board (2 of 3)Schematic Diagram

14.14. H-Board (3 of 3)Schematic Diagram

14.15. G-Board Schematic Diagram

14.16. GK, K, HC and TA-Board Schematic Diagram

14.17. DG-Board (1 of 3) Block Diagram

14.18. DG-Board (2 of 3) Block Diagram

14.19. DG-Board (3 of 3) Block Diagram

14.20. DG-Board (1 of 8) Schematic Diagram

14.21. DG-Board (2 of 8) Schematic Diagram

14.22. DG-Board (3 of 8) Schematic Diagram

14.23. DG-Board (4 of 8) Schematic Diagram

14.24. DG-Board (5 of 8) Schematic Diagram

14.25. DG-Board (6 of 8) Schematic Diagram

14.26. DG-Board (7 of 8) Schematic Diagram

14.27. DG-Board (8 of 8) Schematic Diagram

14.28. XV-Board Block Diagram (PX60B)

14.29. XV-Board (1 of 5) Schematic Diagram (PX60B)

14.30. XV-Board (2 of 5) Schematic Diagram (PX60B)

14.31. XV-Board (3 of 5) Schematic Diagram (PX60B)

14.32. XV-Board (4 of 5) Schematic Diagram (PX60B)

14.33. XV-Board (5 of 5) Schematic Diagram (PX60B)

14.34. D-Board (1 of 2) Block Diagram

14.35. D-Board (2 of 2) Block Diagram

14.36. D-Board (1 of 8) Schematic Diagram

14.37. D-Board (2 of 8) Schematic Diagram

14.38. D-Board (3 of 8) Schematic Diagram

14.39. D-Board (4 of 8) Schematic Diagram

14.40. D-Board (5 of 8) Schematic Diagram

14.41. D-Board (6 of 8) Schematic Diagram

14.42. D-Board (7 of 8) Schematic Diagram

14.43. D-Board (7 of 8) Schematic Diagram

14.44. C1, C2, C5 and C6-Board Block Diagram

14.45. C3, C4, SS, S, SS2 and SS3-Board Block Diagram

14.46. C1-Board (1 of 2) Schematic Diagram

14.47. C1-Board (2 of 2) Schematic Diagram

14.48. C2-Board (1 of 3) Schematic Diagram

14.49. C2-Board (2 of 3) Schematic Diagram

14.50. C2-Board (3 of 3) Schematic Diagram

14.51. C3-Board (1 of 2) Schematic Diagram

14.52. C3-Board (2 of 2) Schematic Diagram

14.53. C4-Board (1 of 2) Schematic Diagram

14.54. C4-Board (2 of 2) Schematic Diagram

14.55. C5-Board (1 of 3) Schematic Diagram

14.56. C5-Board (2 of 3) Schematic Diagram

14.57. C5-Board (3 of 3) Schematic Diagram

14.58. C6-Board (1 of 2) Schematic Diagram

14.59. C6-Board (2 of 2) Schematic Diagram

14.60. SS, S, SS2 and SS3-Board Schematic Diagram

14.61. SC, SU and SD-Board Block Diagram

14.62. SC-Board (1 of 2) Schematic Diagram

14.63. SC-Board (2 of 2) Schematic Diagram

14.64. SU-Board (1 of 2) Schematic Diagram

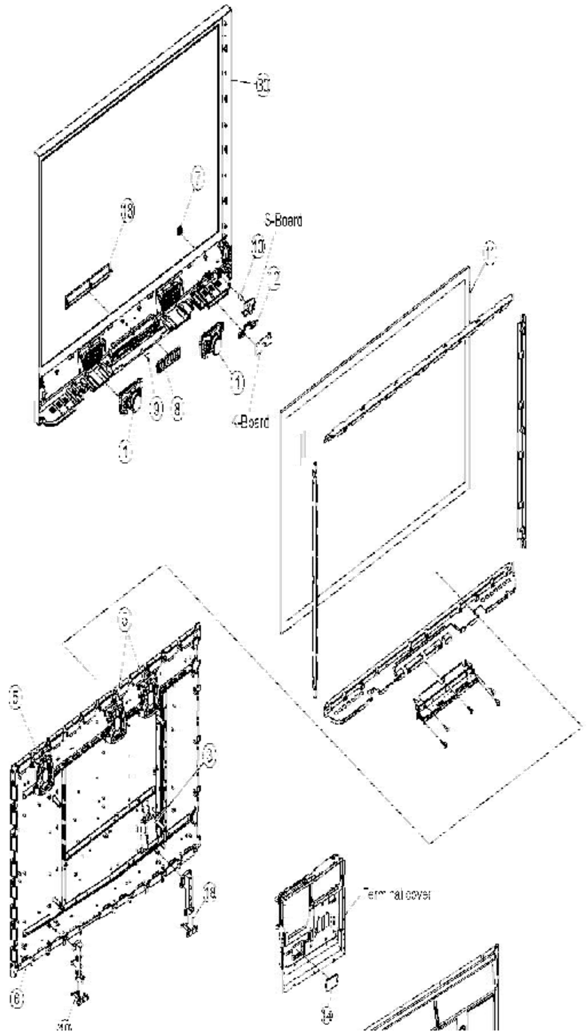
14.65. SU-Board (2 of 2) Schematic Diagram

14.66. SD-Board (1 of 2) Schematic Diagram

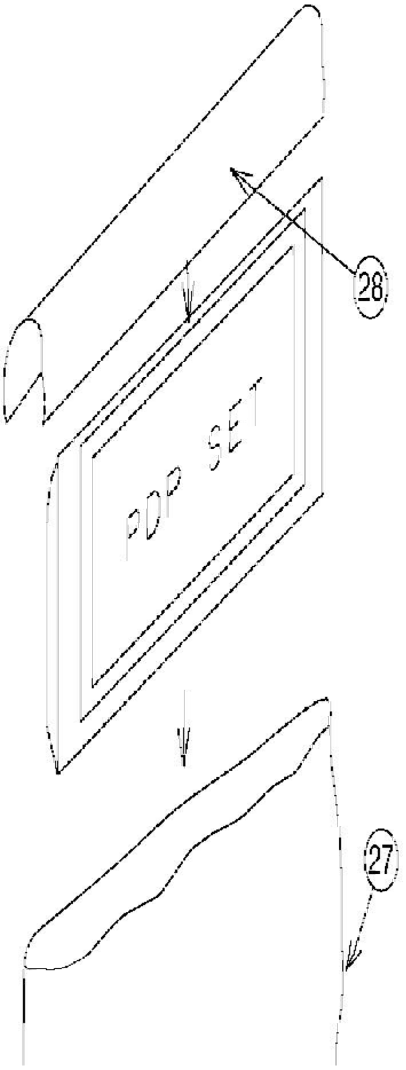
14.67. SD-Board (2 of 2) Schematic Diagram

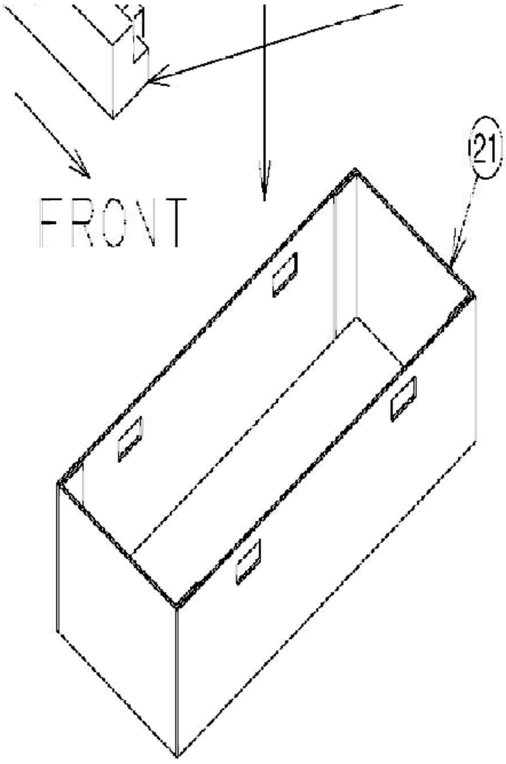
15. Parts Location & Mechanical Replacement Parts List

15.1. Parts Location

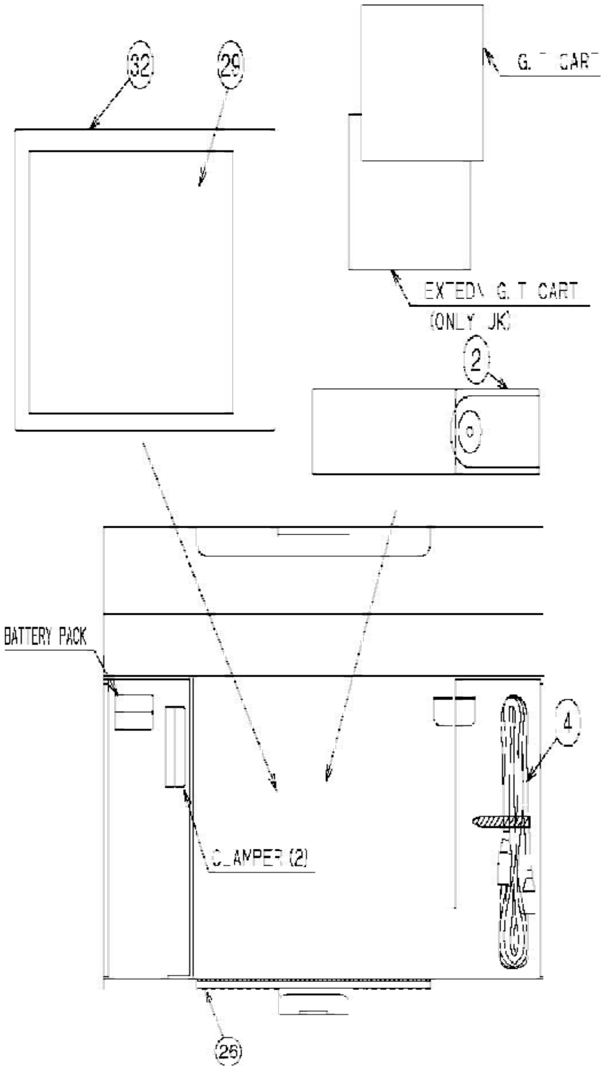

S-Board
K-Board
Terminal cover

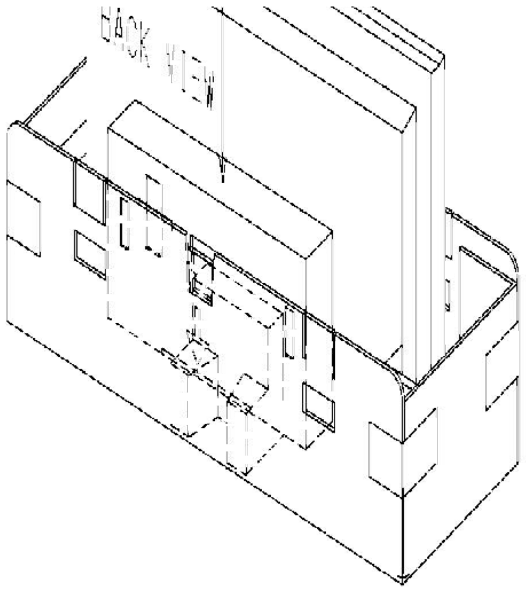
15.2. Packing Exploded Views (1)


28
PDP SET
27

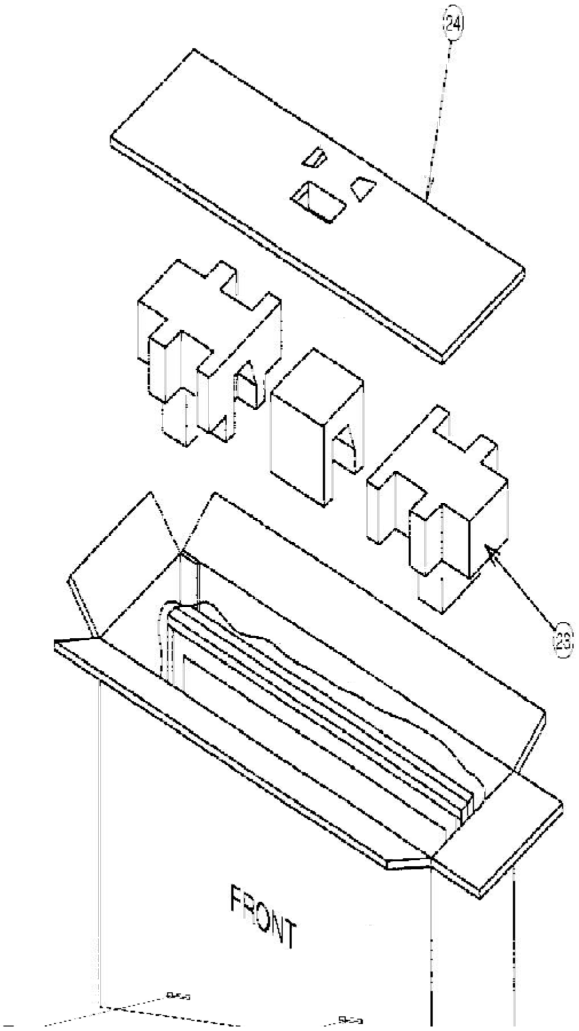


15.3. Packing Exploded Views (2)


32
29
G. T CART
EXTEDN G. T CART
(ONLY UK)
2
BATTERY PACK
4
CLAMPER (2)
25



15.4. Packing Exploded Views (3)



15.5. Mechanical Replacement Parts List

Note:

All parts except parts mentioned [PAVCCZ] in the Remarks column are supplied by PAVC-CSG. Parts mentioned [PAVCCZ] are supplied by PAVCCZ.

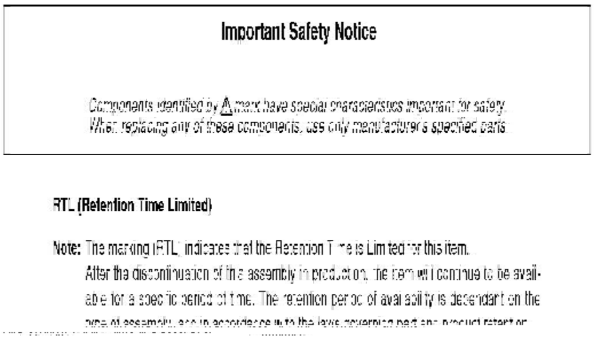
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAS12S10A	SPEAKER	2	
2	EUR7651080	REMOTE CONTROL	1	TH-50PX60B PAVCCZ
2	EUR7651090	REMOTE CONTROL	1	TH-50PV60E PAVCCZ
	J0KF00000018	FILTER	1	
	J2ZZ00000054	RF-CABLE	1	TH-50PX60B PAVCCZ
	K1YD68000002	68P CONNECTOR	1	
	K1YD80000002	80P CONNECTOR	1	
3	K2AHYH000008	AC INLET	1	
4	K2CN3DH00006	AC CORD	1	TH-50PV60E
4	K2CT3DH00018	AC CORD (B/H)	1	TH-50PX60B
5	L6FALEFH0041	FAN (80MM)	3	
6	MD50H09A1J	PLASMA DISPLAY PANEL	1	
	TBMA186	PANASONIC BADGE	1	
7	TBXA48702	POWER BUTTON	1	
8	TBXA48803	CONTROL BUTTON	1	
9	TESA274	LEAF SPRING	1	
10	TESD078	BUTTON SPRING	1	
	THEL037N	SCREW	1	
	THEL0429	SCREW	30	
	THEL047J	SCREW(HDMI:2)	2	
	THTD011J	SCREW	2	
	THTD013N	SCREW	9	
	THTF011N	SCREW	54	
11	TKGA5278	FRONT GLASS	1	
12	TKKC5239	PANEL LIGHT	1	TH-50PV60E PAVCCZ
12	TKKC5240	PANEL LIGHT	1	TH-50PX60B PAVCCZ
13	TKKL5231	M8 SPACER CAP	4	
14	TKKL5269	ADJUSTMENT COVER	1	
15	TKPA94301	INLET COVER	1	
16	TKPB01102	DOOR	1	
17	TKRA46201	REAR COVER HANDLE	2	
	TMK0E742	SPONGE (TKG/UPPER/BOTTOM)	2	PAVCCZ
	TMK0E743	SPONGE (TKG/LEFT/RIGHT)	2	PAVCCZ
	TMKG670	FAN SPONGE	3	
	TMM14490	CLAMPER	4	
	TMM15481	CLAMPER	1	
	TMM16473-1	CLAMPER	1	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	9	
	TMM6463-1	CLAMPER	2	
	TMM7464-2	CLAMPER	3	
	TMM7468-1	CLAMPER	4	
	TMME047	CLAMPER	2	
	TMME061	CLAMPER	6	TH-50PV60E
	TMME061	CLAMPER	8	TH-50PX60B
	TMME190	CLAMPER	3	
	TMME258	CABLE CLAMPER	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME260	CLAMPER	3	
	TMMJ068	RUBBER (FAN)	9	
	TMMX134	M8-SPACER	4	
18	TMZX5066	STAND BRACKET LEFT	1	
19	TMZX5067	STAND BRACKET RIGHT	1	
20	TPC0E67801	CARTON BOX TOP	1	PAVCCZ
21	TPC0E67901	CARTON BOX BOTTOM	1	PAVCCZ
22	TPD0E0117	CUSHION BOTTOM	1	PAVCCZ
23	TPD0E0118	CUSHION TOP	1	PAVCCZ
24	TPD0E9050	TOP PAD	1	PAVCCZ
25	TPD169487	JOINT	4	
26	TPDF1197	ACCESSORIES BOX	1	
27	TPE0E4010	PROTECT COVER	1	PAVCCZ
28	TPE0E4013	TOP PROTECT SHEET	1	PAVCCZ
29	TQB0E0316A	INSTRUCTION BOOK (GERMAN)	1	TH-50PV60E PAVCCZ
29	TQB0E0316B	INSTRUCTION BOOK (DUTCH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316C	INSTRUCTION BOOK (ITALIAN)	1	TH-50PV60E PAVCCZ
29	TQB0E0316D	INSTRUCTION BOOK (FRENCH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316E	INSTRUCTION BOOK (SPANISH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316F	INSTRUCTION BOOK (SWEDISH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316K	INSTRUCTION BOOK (DANISH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316M	INSTRUCTION BOOK (BULGARIA)	1	TH-50PV60E PAVCCZ
29	TQB0E0316N	INSTRUCTION BOOK (ROMANIAN)	1	TH-50PV60E PAVCCZ
29	TQB0E0316P	INSTRUCTION BOOK (POLISH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316Q	INSTRUCTION BOOK (HUNGARIA)	1	TH-50PV60E PAVCCZ
29	TQB0E0316R	INSTRUCTION BOOK (CZECH)	1	TH-50PV60E PAVCCZ
29	TQB0E0316U	INSTRUCTION BOOK (ENGLISH)	1	TH-50PV60E PAVCCZ
29	TQB0E0317	INSTRUCTION BOOK (ENGLISH)	1	TH-50PX60B PAVCCZ
	TSXL514	CABLE (D32-C31)	1	
	TSXL515	CABLE (D33-C41)	1	
	TSXL516	CABLE (D31-C21)	1	
	TSXL517	CABLE (D34-C51)	1	
	TSXL518	CABLE (C10-C20/C50-C60)	2	
	TSXL519	CABLE (C22-C32/C52-C42)	2	
	TSXL520	CABLE (DG1-H1)	1	
	TSXL521	CABLE (DG15-HC15)	1	
	TSXL524	CABLE (DG3-D3)	1	
	TSXL525	CABLE (DG20-PA20)	1	
30	TXFKE01BHTB	ESCUTCHEON ASS'Y	1	TH-50PX60B PAVCCZ
30	TXFKE01BHTE	ESCUTCHEON ASS'Y	1	TH-50PV60E PAVCCZ
31	TXFKU01BHTB	REAR COVER	1	TH-50PX60B PAVCCZ
31	TXFKU01BHTE	REAR COVER	1	TH-50PV60E PAVCCZ
	TXJ/SWYFSE	SPEAKER LEAD	2	
	XTB4+12GFJ	SCREW	55	
	XTB4+12GFJK	SCREW	8	
	XTB4+16GFJ	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XTV3+10JFJK	SCREW	6	
	XTW3+10TFJ	SCREW	3	
	XYN3+F10FJ	SCREW	1	
	XYN3+F6FJ	SCREW	1	
	XYN3+F8FJ	SCREW	30	TH-50PV60E
	XYN3+F8FJ	SCREW	35	TH-50PX60B
	XYN3+J12FJ	SCREW	40	
	XYN3+J8FJ	SCREW ROHS	12	
	XYN4+E8FJ	SCREW	1	
	XYN4+F10FJ	SCREW	6	
	XYN4+F10FJK	SCREW	6	
	XYN4+F30FJK	SCREW (BC TOP6 SIDE6: AL)	6	
	XYN5+C20FJ	SCREW	8	
32	XZBT6530	POLY BAG	1	

16. Electrical Replacement Parts List

16.1. Replacement Parts List Notes



Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the

16.2. Electrical Replacement Parts List

Note:
All parts except parts mentioned [PAVCCZ] in the Remarks column are supplied by PAVC-CSG.
Parts mentioned [PAVCCZ] are supplied by PAVCCZ.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F101.102	K5D103BMA001	TIME LAG FUSE HIGH	2	
C001	ECA0JM102	E 1000UF, 6.3V	1	
C002,03	ECA1HM100	E 10UF, 50V	2	
C007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C009	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C10	K1MN55BA0076	55P CONNECTOR	1	
C013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C016	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C018,19	ECJ1VC1H330J	C 33PF, J, 50V	2	
C020	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C20	K1MN55BA0076	55P CONNECTOR	1	
C021	ECJ1XC1H101J	C 100PF, J, 50V	1	
C21	K1MN80BA0076	80P CONNECTOR	1	
C22	K1MN20BA0231	20P CONNECTOR	1	
C31	K1MN55BA0076	55P CONNECTOR	1	
C32	K1MN20BA0231	20P CONNECTOR	1	
C33	K1KA04AA0150	4P CONNECTOR	1	
C41	K1MN68BA0076	68P CONNECTOR	1	
C42	K1MN20BA0231	20P CONNECTOR	1	
C43	K1KA12BA0107	12P CONNECTOR	1	
C44	K1KA04BA0107	4P CONNECTOR	1	
C50	K1MN55BA0076	55P CONNECTOR	1	
C51	K1MN80BA0076	80P CONNECTOR	1	
C52	K1MN20BA0231	20P CONNECTOR	1	
C60	K1MN55BA0076	55P CONNECTOR	1	
C1100	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1102	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1103	ECJ0EB1E271K	C 270PF, K, 25V	1	
C1105	ECJ0EB1E271K	C 270PF, K, 25V	1	
C1106	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1107	EEEHB0G101R	C 100PF, J, 4V	1	
C1109-11	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C1112	ECJ0EB1E271K	C 270PF, K, 25V	1	
C1114	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1116	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1118-23	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C1125	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1127-32	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C1133,34	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1135-42	ECJ0EB1A104K	C 0.1UF, K, 10V	8	
C1144-50	ECJ0EB1A104K	C 0.1UF, K, 10V	7	
C1152	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1153	EEEHB0G101R	C 100PF, J, 4V	1	
C1154	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1155	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C1156,57	ECJ1XC1H220J	C 22PF, J, 50V	2	
C1158	F1J0J1060004	C 0.010UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1159	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1160	F2G0J470A019	E 47UF 6.3V	1	
C1161	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1162	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C1167,68	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C1170,71	ECJ0EB1A104K	C 0.1UF, K, 10V	2	TH-50PX60B
C1172	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1177	ECJ1VB1A334K	C 0.1UF, K, 16V	1	
C1178	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1180,81	ECJ1VB1H221K	C 220UF, K, 50V	2	
C1186	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1190	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C1209	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1212	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1219,20	EEEHP1C100R	C 10PF, J, 16V	2	
C1221	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C1222,23	F1J0J1060004	C 0.010UF, K, 16V	2	
C1226	F1J0J1060004	C 0.010UF, K, 16V	1	
C1227	ECJ0EB1H101K	C 100PF, K, 50V	1	
C1228-34	EEEHB1C470P	C 47PF, J, 16V	7	
C1294	ECJ1XC1H330J	C 33PF, J, 50V	1	
C2005-18	ECJ1XC1H561J	C 560PF, J, 50V	14	
C2019	ECA1CM221	E 220UF, 16V	1	
C2020	ECA1HM220	E 22UF, 50V	1	
C2021,22	ECJ1XC1H561J	C 560PF, J, 50V	2	
C2103,04	ECJ3YB1A106M	C 10UF, M,6.3V	2	
C2111	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2116	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2118,19	F2J1C4700003	E 47UF, 16V	2	PAVCCZ
C2122,23	ECJ3YB1A106M	C 10UF, M,6.3V	2	
C2125,26	ECJ1VB1H102K	C 1000PF, K, 50V	2	
C2127	ECA1CMH101	E 100UF, 16V	1	
C2128	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2129,30	F1J1A1050002	C 1UF, Z, 50V	2	
C2131	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2132	EEEHB1C100R	C 10PF, J, 16V	1	
C2133,34	ECJ1XC1H470J	C 47PF, J, 50V	2	
C2139-43	ECJ1VB1H103K	C 0.001UF, K, 50V	5	
C2144,45	ECJ3YB1A106M	C 10UF, M,6.3V	2	
C2146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2147	ECA1HM220	E 22UF, 50V	1	
C2148-50	ECJ2FB1C105K	C 1UF, K, 16V	3	
C2152	ECJ2FB1C105K	C 1UF, K, 16V	1	
C2153	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C2154	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2155	ECJ2FB1C105K	C 1UF, K, 16V	1	
C2156	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C2157	ECJ2FB1C105K	C 1UF, K, 16V	1	
C2158	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C2159,60	ECJ2FB1C105K	C 1UF, K, 16V	2	
C2161	ECA1CMH101	E 100UF, 16V	1	
C2162-69	ECJ2FB1C105K	C 1UF, K, 16V	8	
C2170-72	ECJ1VB1H102K	C 1000PF, K, 50V	3	
C2173	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2174	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C2175-77	ECJ1VB1H103K	C 0.001UF, K, 50V	3	
C2178,79	EEEHB1C100R	C 10PF, J, 16V	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2181	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2183	EEEHB1H3R3R	C 3.3PF, J, 50V	1	
C2184,85	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2189,90	ECJ2FB1C105K	C 1UF, K, 16V	2	
C2191	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2192	EEEHB1C100R	C 10PF, J, 16V	1	
C2193,94	ECJ2FB1C105K	C 1UF, K, 16V	2	
C2195	ECJ1XC1H470J	C 47PF, J, 50V	1	
C2196	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2197	ECJ2FB0J225K	C 2.2UF, Z, 16V	1	
C2198	EEEHB0J101P	C 100PF, J, 6.3V	1	
C2199	ECJ1VC1H560J	C 56PF, J, 50V	1	
C2200	ECJ1XC1H470J	C 47PF, J, 50V	1	
C2201	ECJ1XC1H030C	C 3PF, C, 50V	1	
C2202	ECJ1XC1H050C	C 5PF, C, 50V	1	
C2203	ECJ1VC1H100C	C 10PF, C, 50V	1	
C2204	ECJ1XC1H220J	C 22PF, J, 50V	1	
C2211	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C2213	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
C2217	F1H0J1050012	C 1UF, K, 16V	1	
C2218-21	ECJ3YB1A106M	C 10UF, M,6.3V	4	
C2222	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2223	ECJ1XC1H390J	C 39PF, J, 50V	1	
C2225	ECJ2FB1C105K	C 1UF, K, 16V	1	
C2226	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C2227	ECA1CMH101	E 100UF, 16V	1	
C2228	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2229,30	ECA1CMH101	E 100UF, 16V	2	
C2231	ECA1CHG470	E 47UF, 16V	1	
C2232	F1H0J1050012	C 1UF, K, 16V	1	
C2233,34	ECJ1VB1H102K	C 1000PF, K, 50V	2	
C2235	F1H0J1050012	C 1UF, K, 16V	1	
C2236	ECA1CHG470	E 47UF, 16V	1	
C2237-40	ECJ1VB1H103K	C 0.001UF, K, 50V	4	
C2243	ECA1CHG470	E 47UF, 16V	1	
C2301	ECA1EHG471	E 470UF, 25V	1	
C2303	ECA1CMH101	E 100UF, 16V	1	
C2307	ECA1CMH101	E 100UF, 16V	1	
C2314	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C2317	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2320	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2321	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2322	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2323,24	ECJ2FB1E224K	C 22UF, K, 25V	2	
C2325,26	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C2327	F1J1H474A757	C 0.47UF, 50V	1	
C2328-31	ECJ2FB1E105K	C 1UF, K, 25V	4	
C2332,33	ECA1EHG471	E 470UF, 25V	2	
C2334,35	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C2336	F1J1H474A757	C 0.47UF, 50V	1	
C2337,38	ECJ2FB1E224K	C 22UF, K, 25V	2	
C2341	ECJ3YB1E106M	C 10 UF, K, 25V	1	
C2342	ECJ2FB1E105K	C 1UF, K, 25V	1	
C2372	ECA1HHG100	E 10UF, 50V	1	
C2373	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C2374	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2380	ECJ1VB1H103K	C 0.001UF, K, 50V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2382	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C2385	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2387	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2393,94	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C2401	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2402	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C2403	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2417	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C2430	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2510,11	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2512	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2515	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2517	ECJ1VB1H103K	C 0.001UF, K, 50V	1	TH-50PX60B
C2521	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3001-03	ECJ1VB1H102K	C 1000PF, K, 50V	3	
C3021	F1J1A1050002	C 1UF, Z, 50V	1	
C3022,23	ECJ1VB1H103K	C 0.001UF, K, 50V	2	
C3024-28	F1J1A1050002	C 1UF, Z, 50V	5	
C3029	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3030	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3031	F1J1A1050002	C 1UF, Z, 50V	1	
C3033	F1J1A1050002	C 1UF, Z, 50V	1	
C3035,36	F1J1A1050002	C 1UF, Z, 50V	2	
C3038	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3039	F1J1A1050002	C 1UF, Z, 50V	1	
C3040	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3041	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3043	F1J1A1050002	C 1UF, Z, 50V	1	
C3045,46	ECJ1VB1H103K	C 0.001UF, K, 50V	2	
C3047	F1J1A1050002	C 1UF, Z, 50V	1	
C3048	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3049-56	F1J1A1050002	C 1UF, Z, 50V	8	
C3058	ECA1EM471	E 470UF, 25V	1	
C3059	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3062-64	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3065	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3066	F1J1A1050002	C 1UF, Z, 50V	1	
C3067	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3068	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3070	ECA1EM471	E 470UF, 25V	1	
C3071	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3072	ECA1EM471	E 470UF, 25V	1	
C3073	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3074	ECA1EM471	E 470UF, 25V	1	
C3075	ECA1CM221	E 220UF, 16V	1	
C3076	ECA1EM471	E 470UF, 25V	1	
C3207	ECA1AM102	E 1000UF, 10V	1	
C3214	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3216	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3226-28	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3230	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3233	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3241	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3262	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C3268	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C3305	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3330	ECA1CM470	E 47UF, 16V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3331	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3332	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3334	F2J1C4700003	E 47UF, 16V	1	PAVCCZ
C3335	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3336	F2J1C4700003	E 47UF, 16V	1	PAVCCZ
C3337	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3338	F2J1C4700003	E 47UF, 16V	1	PAVCCZ
C3339	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3340-42	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3701	ECJ2XC1H561K	C 560PF, K, 50V	1	
C3703	ECJ2XC1H561K	C 560PF, K, 50V	1	
C3711,12	ECJ2VF1H333Z	C 0.033UF, Z, 50V	2	
C3750,51	ECJ2XC1H102K	C 1000PF, K, 50V	2	
C4003-08	F1J0J1060004	C 0.010UF, K, 16V	6	
C4014,15	F1J0J1060004	C 0.010UF, K, 16V	2	
C4023	F1J0J1060004	C 0.010UF, K, 16V	1	
C4026	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4027	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4028	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4112	F1J0J1060004	C 0.010UF, K, 16V	1	
C4117	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4158	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4159	F1H1C104A065	C 0.1UF, K, 16V	1	
C4160	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4165	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4168	ECJ1XC1H680J	C 68PF, J, 50V	1	
C4171	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4172,73	F1H1C104A065	C 0.1UF, K, 16V	2	
C4174	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4175	F1H1C104A065	C 0.1UF, K, 16V	1	
C4176	ECJ1VB0J225K	C 2.2UF, K, 6.3V	1	
C4177	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C4178	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C4180	F1H1C104A065	C 0.1UF, K, 16V	1	
C4185,86	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4188	F1J0J1060004	C 0.010UF, K, 16V	1	
C4189-91	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4193	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4194-97	F1H1C104A065	C 0.1UF, K, 16V	4	
C4199	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4200	F2G0J470A019	E 47UF 6.3V	1	
C4201	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4204	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4205,06	F1H1C104A065	C 0.1UF, K, 16V	2	
C4208,09	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4211	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4215	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4216	F2G0J470A019	E 47UF 6.3V	1	
C4217	F1H1C104A065	C 0.1UF, K, 16V	1	
C4218	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4219	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4224	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4227	ECJ1VB1C823K	C 0.082UF, K, 16V	1	
C4228	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4235	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4244	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4245	ECJ0EB1A104K	C 0.1UF, K, 10V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4248	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4253	F2G0J470A019	E 47UF 6.3V	1	
C4256	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4262-64	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4266	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4269	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4272	F2G0J470A019	E 47UF 6.3V	1	
C4273	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4281-84	ECJ0EB1A104K	C 0.1UF, K, 10V	4	
C4287,88	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4289,90	EEEHB0J330R	C 33PF, J, 6.3V	2	
C4291,92	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4296	F1J0J1060004	C 0.010UF, K, 16V	1	
C4297	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4298-06	ECJ1VB1A105K	C 0.01UF, Z, 50V	9	
C4307-09	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4310	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4311	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4312	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4313,14	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4315	F1J0J1060004	C 0.010UF, K, 16V	1	
C4316-18	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4320-22	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4325	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4327	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4329,30	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4331	F1J0J1060004	C 0.010UF, K, 16V	1	
C4332	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4333-38	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C4339	ECJ1VB0J225K	C 2.2UF, K, 6.3V	1	
C4340	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4341	EEEHB1C470P	C 47PF, J, 16V	1	
C4342	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4343	EEEHB1C100R	C 10PF, J, 16V	1	
C4344,45	F1J0J1060004	C 0.010UF, K, 16V	2	
C4346	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4347	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4348	EEEHB1C470P	C 47PF, J, 16V	1	
C4349	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4350,51	ECJ1XC1H181J	C 180PF, J, 50V	2	
C4352,53	ECJ1XC1H330J	C 33PF, J, 50V	2	
C4354	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4360	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4362	F1J0J1060004	C 0.010UF, K, 16V	1	
C4363,64	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4365	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4366	F2G0J470A019	E 47UF 6.3V	1	
C4367	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4371	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4372	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4373	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4374	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4375,76	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4377	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4379	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4380	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4381,82	ECJ0EB1A104K	C 0.1UF, K, 10V	2	

[illegible]	[illegible]	[illegible]	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4383	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4384	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4385	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4386	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4387	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4388	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4389	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4390	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4391	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4392	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4393,94	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4395	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4396	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4397,98	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4399,00	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C4401	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4402,03	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4404	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4405	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4406	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4407,08	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4409	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4410	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4411,12	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4413,14	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4415	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4417	F2G0J470A019	E 47UF 6.3V	1	
C4418,19	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C4420,21	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4422-24	ECJ0EB1H102K	C 1000PF, K, 50V	3	
C4425,26	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4427	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4428	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4429,30	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4434	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4435	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4436-39	ECJ0EB1H102K	C 1000PF, K, 50V	4	
C4440	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4441,42	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4447	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4448	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4451	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4452	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4453,54	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4455	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4456	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4457,58	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4459	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4460	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4461	ECJ1XC1H820J	C 82PF, J, 50V	1	
C4462	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4464	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4465	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4466	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4467	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4470	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4474	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4475,76	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4477	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4478	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4479-81	ECJ0EB1H102K	C 1000PF, K, 50V	3	
C4482	ECJ1XC1H180J	C 18PF, J, 50V	1	
C4483	ECJ1XC1H150J	C 15PF, J, 50V	1	
C4493	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4494	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4496	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4497	EEEHB0G101R	C 100PF, J, 4V	1	
C4498	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4499	EEFCD0G560ER	56UF,	1	
C4501	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4502	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4503	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4504	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4505	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4506	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4507	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4508	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4509-11	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4512	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4513	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4514	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4515,16	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4517	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4518	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4519	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4520	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4521	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4522	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4523	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4524	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4525	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4526	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4527	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4528	F2G0J470A019	E 47UF 6.3V	1	
C4529	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4530,31	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4532,33	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4534	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4535	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4536	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4537	EEEHB0G101R	C 100PF, J, 4V	1	
C4538	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4539	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4540	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4541	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4543	F1H1C104A065	C 0.1UF, K, 16V	1	
C4544	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C5604	ECA1HHG100	E 10UF, 50V	1	
C5605	EEUFC1E471	E 470UF, 25V	1	
C5606	ECA1CM471	E 470UF, 16V	1	
C5609	ECA1HM220	E 22UF, 50V	1	
C5611	F2A1H331A257	E 330UF, 50V	1	
C5612	ECA1CM471	E 470UF, 16V	1	
C5613	ECJ1VB1E104K	C 0.10UF, K, 25V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5616	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5617	ECA1CM471	E 470UF, 16V	1	
C5618,19	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C5622	ECA1CM471	E 470UF, 16V	1	
C5623	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5626	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5633	ECA1EM221	E 220UF, 25V	1	
C5637	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5641-44	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C5645	ECA1CHG470	E 47UF, 16V	1	
C5646	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C5647	ECA1CHG470	E 47UF, 16V	1	
C5648	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C5670	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5672	ECA1HHG100	E 10UF, 50V	1	
C5673	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5685	ECA1HHG100	E 10UF, 50V	1	
C5686	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C5801,02	EEUFC1E471	E 470UF, 25V	2	
C5804	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5805	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C5809	ECJ3XF1E105Z	C 1UF, Z, 25V	1	
C5810	ECA1EHG470	E 47UF, 25V	1	
C6001	F1L2J562A022	C 5600UF, K,6.3V	1	
C6011-16	F2A2T201A001	E 200UF,	6	
C6023	F1L2J562A022	C 5600UF, K,6.3V	1	
C6031	F0C2E405A176	E 0.040UF, 250V	1	
C6041-44	TCUY1C105ZFN	C 1UF, 16V	4	
C6105	F1L1E4750004	C 4.7UF, 25V	1	
C6111,12	F2A2D221A022	E 220UF, 200V	2	
C6132	F1L1E4750004	C 4.7UF, 25V	1	
C6134,35	F1L1E4750004	C 4.7UF, 25V	2	
C6151	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6152-55	F1L1E4750004	C 4.7UF, 25V	4	
C6192	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6194,95	F1L1E4750004	C 4.7UF, 25V	2	
C6201-04	F0C2E405A176	E 0.040UF, 250V	4	
C6211,12	F1L1E4750004	C 4.7UF, 25V	2	
C6213	F2A1E102A220	E 1000UF, 25V	1	
C6221	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6241	ECA1EM471	E 470UF, 25V	1	
C6242	TCUY1C105ZFN	C 1UF, 16V	1	
C6243	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6251	TCUY1C105ZFN	C 1UF, 16V	1	
C6262,63	F2A2A471A072	E 470UF, 100V	2	
C6272,73	EEUFC1E221	E 220UF, 25V	2	
C6401-03	F1L2J222A022	C 2200UF, K,6.3V	3	
C6411-16	F2A2T201A001	E 200UF,	6	
C6421-24	F1L2J222A022	C 2200UF, K,6.3V	4	
C6431	F0C2E405A176	E 0.040UF, 250V	1	
C6472	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6480	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6502	F1L1E4750004	C 4.7UF, 25V	1	
C6504,05	F1L1E4750004	C 4.7UF, 25V	2	
C6512-15	F0C2E405A176	E 0.040UF, 250V	4	
C6521	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6522	F1L1E4750004	C 4.7UF, 25V	1	

[illegible]	[illegible]	C 4.7uF, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6524,25	F1L1E4750004	C 4.7UF, 25V	2	
C6527	F1L1E4750004	C 4.7UF, 25V	1	
C6561	F2A1A1010074	E 100UF, 10V	1	
C6562	TCUY1C105ZFN	C 1UF, 16V	1	
C6563	F2A1A1010074	E 100UF, 10V	1	
C6564	TCUY1C105ZFN	C 1UF, 16V	1	
C6565,66	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C6581	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6582	TCUY1C105ZFN	C 1UF, 16V	1	
C6592	ECA1EM471	E 470UF, 25V	1	
C6593	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6601,02	F1L1E4750004	C 4.7UF, 25V	2	
C6603	F1K2J102A014	C 1000UF, K,6.3V	1	
C6604	F2A2V470A020	E 47UF, 350V	1	
C6605	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6606	F1K2J102A014	C 1000UF, K,6.3V	1	
C6610	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6611	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6612	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6620	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6641	ECQE2105RKB	P 1UF, 250V	1	
C6661,62	F1K2J102A014	C 1000UF, K,6.3V	2	
C6671	F1L1E4750004	C 4.7UF, 25V	1	
C6681,82	F1L1E4750004	C 4.7UF, 25V	2	
C6683	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6691	ECA2CM101	E 100UF, 160V	1	
C6701-08	ECJ2XB1H104K	C 0.1UF, K, 50V	8	
C6721	ECA1HM101	E 100UF, 50V	1	
C6723-25	F1L1E4750004	C 4.7UF, 25V	3	
C6726,27	TCUY1C105ZFN	C 1UF, 16V	2	
C6728	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6752	TCUY1C105ZFN	C 1UF, 16V	1	
C6753	F1L1E4750004	C 4.7UF, 25V	1	
C6754	ECA1VM470	E 47UF, 35V	1	
C6755	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6771	TCUY1C105ZFN	C 1UF, 16V	1	
C6772,73	F1L1E4750004	C 4.7UF, 25V	2	
C6775	F1L1E4750004	C 4.7UF, 25V	1	
C6776,77	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C6791	EEUFC1E221	E 220UF, 25V	1	
C6795,96	EEUFC1E221	E 220UF, 25V	2	
C6801	F2A2E470A022	E 47UF, 250V	1	
C6802	ECQE6223KF	P 0.022UF, K,400V	1	
C6803	ECKD3D221KBP	C 220PF, K, 2KV	1	
C6804	F2A2E100A022	E 10UF, 250V	1	
C6805	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6806	ECA2CM101	E 100UF, 160V	1	
C6807	ECJ2XC1H471J	C 470PF, J, 50V	1	
C6811	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6812	F1L1E4750004	C 4.7UF, 25V	1	
C6813	ECA2CM101	E 100UF, 160V	1	
C6814	ECA1VM151	E 150UF, 35V	1	
C6815	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6822	F2A2V100A019	E 10UF, 350V	1	
C6823	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6841	ECA2DHG101	E 100UF, 200V	1	
C6842	ECA2CM101	E 100UF, 160V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6845	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6861	TCUY1C105ZFN	C 1UF, 16V	1	
C6862	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6863	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6871	TCUY1C105ZFN	C 1UF, 16V	1	
C6872	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6873	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6901	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6902	TCUY1C105ZFN	C 1UF, 16V	1	
C6904	TCUY1C105ZFN	C 1UF, 16V	1	
C6906	TCUY1C105ZFN	C 1UF, 16V	1	
C6908	TCUY1C105ZFN	C 1UF, 16V	1	
C6910	TCUY1C105ZFN	C 1UF, 16V	1	
C6912	TCUY1C105ZFN	C 1UF, 16V	1	
C6914-18	ECJ2XB1H221K	C 220PF, K, 50V	5	
C6931	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6932-35	F1L2E105A013	E 0.10UF, 25V	4	
C6951	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6952	TCUY1C105ZFN	C 1UF, 16V	1	
C6955	TCUY1C105ZFN	C 1UF, 16V	1	
C6957,58	TCUY1C105ZFN	C 1UF, 16V	2	
C6961	TCUY1C105ZFN	C 1UF, 16V	1	
C6963	TCUY1C105ZFN	C 1UF, 16V	1	
C6964-68	ECJ2XB1H221K	C 220PF, K, 50V	5	
C6981	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6982-85	F1L2E105A013	E 0.10UF, 25V	4	
C7103	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7105	TCUY1C105ZFN	C 1UF, 16V	1	
C7106	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7108	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7109	TCUY1C105ZFN	C 1UF, 16V	1	
C7112	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7114	TCUY1C105ZFN	C 1UF, 16V	1	
C7115	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7117	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7118	TCUY1C105ZFN	C 1UF, 16V	1	
C7121	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7123	TCUY1C105ZFN	C 1UF, 16V	1	
C7124	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7126	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7127,28	TCUY1C105ZFN	C 1UF, 16V	2	
C7130	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7201-03	TCUY1C105ZFN	C 1UF, 16V	3	
C7205	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7206	TCUY1C105ZFN	C 1UF, 16V	1	
C7208	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7210	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7213	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7215	TCUY1C105ZFN	C 1UF, 16V	1	
C7216	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7218	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7221,22	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7225	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7226	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7228	TCUY1C105ZFN	C 1UF, 16V	1	
C7229,30	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7232	TCUY1C105ZFN	C 1UF, 16V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7233,34	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7236	TCUY1C105ZFN	C 1UF, 16V	1	
C7237,38	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7240	TCUY1C105ZFN	C 1UF, 16V	1	
C7241	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7243	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7247	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7249	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7251	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7302	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7306,07	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7309,10	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7311,12	TCUY1C105ZFN	C 1UF, 16V	2	
C7313-15	ECJ1XC1H101J	C 100PF, J, 50V	3	
C7316,17	TCUY1C105ZFN	C 1UF, 16V	2	
C7318	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7319	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7321	TCUY1C105ZFN	C 1UF, 16V	1	
C7322	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7331	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7333	TCUY1C105ZFN	C 1UF, 16V	1	
C7334,35	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7337	TCUY1C105ZFN	C 1UF, 16V	1	
C7338,39	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7341	TCUY1C105ZFN	C 1UF, 16V	1	
C7342	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7403	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7405	TCUY1C105ZFN	C 1UF, 16V	1	
C7406	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7407	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7408	TCUY1C105ZFN	C 1UF, 16V	1	
C7411	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7413	TCUY1C105ZFN	C 1UF, 16V	1	
C7414	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7415	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7416	TCUY1C105ZFN	C 1UF, 16V	1	
C7419	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7421	TCUY1C105ZFN	C 1UF, 16V	1	
C7422	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7423	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7424	TCUY1C105ZFN	C 1UF, 16V	1	
C7427	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7429	TCUY1C105ZFN	C 1UF, 16V	1	
C7430	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7431	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7432,33	TCUY1C105ZFN	C 1UF, 16V	2	
C7435	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7440-43	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C7502	TCUY1C105ZFN	C 1UF, 16V	1	
C7504	TCUY1C105ZFN	C 1UF, 16V	1	
C7506	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7508	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7509	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7510	TCUY1C105ZFN	C 1UF, 16V	1	
C7511	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7513,14	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7517	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7518	TCUY1C105ZFN	C 1UF, 16V	1	
C7521	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7523	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7524	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7525	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7527	TCUY1C105ZFN	C 1UF, 16V	1	
C7528,29	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7531	TCUY1C105ZFN	C 1UF, 16V	1	
C7532,33	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7535	TCUY1C105ZFN	C 1UF, 16V	1	
C7536	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7557	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7559	TCUY1C105ZFN	C 1UF, 16V	1	
C7560	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7562	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7564	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7566	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7603	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7605	TCUY1C105ZFN	C 1UF, 16V	1	
C7606	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7607	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7608	TCUY1C105ZFN	C 1UF, 16V	1	
C7611	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7613	TCUY1C105ZFN	C 1UF, 16V	1	
C7614	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7615	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7616	TCUY1C105ZFN	C 1UF, 16V	1	
C7619	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7621	TCUY1C105ZFN	C 1UF, 16V	1	
C7622	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7623	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7624,25	TCUY1C105ZFN	C 1UF, 16V	2	
C7626	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C8001	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8002	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8003	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8004	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8005	EEEHB1C100R	C 10PF, J, 16V	1	TH-50PX60B
C8007	ECJ0EB1H102K	C 1000PF, K, 50V	1	TH-50PX60B
C8015	ECJ1VC1H080C	C 8PF, C, 50V	1	TH-50PX60B
C8019,20	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B
C8021	ECJ0EB1H102K	C 1000PF, K, 50V	1	TH-50PX60B
C8030	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8034,35	ECJ0EF1C104Z	C 0.10UF, Z, 16V	2	TH-50PX60B
C8037	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8039,40	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B
C8041	EEEHB0G101R	C 100PF, J, 4V	1	TH-50PX60B
C8042,43	ECJ1VC1H100C	C 10PF, C, 50V	2	TH-50PX60B
C8046-48	ECJ0EB1C103K	C0.010UF, K, 16V	3	TH-50PX60B
C8051,52	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B
C8055	F2G0J470A019	E 47UF 6.3V	1	TH-50PX60B
C8056	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8058-61	ECJ0EB1C103K	C0.010UF, K, 16V	4	TH-50PX60B
C8062	F1G1A1540001	C 0.15UF, K, 10V	1	TH-50PX60B PAVCCZ
C8071	ECJ0EC1H270J	C 270PF, K, 50V	1	TH-50PX60B
C8073	ECJ0EC1H270J	C 270PF, K, 50V	1	TH-50PX60B
C8098	ECGRL0G680ER	C 68PF, J, 4V	1	TH-50PX60B

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8099,00	ECJ0EB1A104K	C 0.1UF, K, 10V	2	TH-50PX60B
C8101,02	ECJ1VB0J105K	C 1UF, K, 6.3V	2	TH-50PX60B
C8103,04	ECJ0EB1A104K	C 0.1UF, K, 10V	2	TH-50PX60B
C8105	EEEHB0G101R	C 100PF, J, 4V	1	TH-50PX60B
C8106,07	ECJ1VB0J105K	C 1UF, K, 6.3V	2	TH-50PX60B
C8108	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8109	EEEHB0G101R	C 100PF, J, 4V	1	TH-50PX60B
C8110	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8121	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8128,29	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B
C8134	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8135	ECJ0EB1A473K	C 0.047UF, K, 10V	1	TH-50PX60B
C8136	ECGRL0G680ER	C 68PF, J, 4V	1	TH-50PX60B
C8138	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8139	ECGRL0G680ER	C 68PF, J, 4V	1	TH-50PX60B
C8140	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8141	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8142	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8143	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8144	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8145	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8146	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8147	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8148	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8149	ECJ1VB0J105K	C 1UF, K, 6.3V	1	TH-50PX60B
C8150	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8151	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8154-56	ECJ0EB1A104K	C 0.1UF, K, 10V	3	TH-50PX60B
C8157	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8160	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8161-64	ECJ0EB1C103K	C0.010UF, K, 16V	4	TH-50PX60B
C8165	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8166	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8167	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8168	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8169	EEEHB0G470R	C 47PF, J, 4V	1	TH-50PX60B
C8170	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8171	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8172	EEEHB0G470R	C 47PF, J, 4V	1	TH-50PX60B
C8173-75	ECJ0EB1C103K	C0.010UF, K, 16V	3	TH-50PX60B
C8176	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8182	ECJ0EC1H121J	C 120PF, K, 50V	1	TH-50PX60B
C8186	ECJ0EC1H680J	C 680PF, K, 50V	1	TH-50PX60B
C8189	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8193	EEEHB0J101P	C 100PF, J, 6.3V	1	TH-50PX60B
C8202,03	EEEHB1C470P	C 47PF, J, 16V	2	TH-50PX60B
C8204	ECJ3XB1C106M	C 1.0UF, K, 16V	1	TH-50PX60B
C8205,06	ECJ0EB1A104K	C 0.1UF, K, 10V	2	TH-50PX60B
C8207	EEEHB1C470P	C 47PF, J, 16V	1	TH-50PX60B
C8208	ECJ3XB1C106M	C 1.0UF, K, 16V	1	TH-50PX60B
C8210	ECJ0EB1A333K	C 0.033UF, K, 10V	1	TH-50PX60B
C8212	ECJ0EB1C223K	C 0.022UF, K, 16V	1	TH-50PX60B
C8240	ECJ1VB0J105K	C 1UF, K, 6.3V	1	TH-50PX60B
C8268	ECJ1VB0J105K	C 1UF, K, 6.3V	1	TH-50PX60B
C8269	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8303	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8305,06	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8314	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8315	ECJ2FF1A475Z	C 4.7UF, Z, 10V	1	TH-50PX60B
C8317,18	ECJ2FF1A475Z	C 4.7UF, Z, 10V	2	TH-50PX60B
C8319	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8320-23	ECJ1VB0J105K	C 1UF, K, 6.3V	4	TH-50PX60B
C8327	F2G0J470A019	E 47UF 6.3V	1	TH-50PX60B
C8329	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8330,31	ECJ0EC1H181J	C 180PF, K, 50V	2	TH-50PX60B
C8332	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8334,35	ECJ0EC1H330J	C 330PF, K, 50V	2	TH-50PX60B
C8340	ECJ0EB1C682K	C 6800UF, K, 16V	1	TH-50PX60B
C8341	ECJ0EB1C822K	C 8200UF, K, 16V	1	TH-50PX60B
C8342,43	ECGRL0G680ER	C 68PF, J, 4V	2	TH-50PX60B
C8344	ECJ1VB1H332K	C 3300PF, K, 50V	1	TH-50PX60B
C8345	ECJ0EB1C153K	C 0.015UF, K, 16V	1	TH-50PX60B
C8349	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8350,51	ECJ0EF1C104Z	C 0.10UF, Z, 16V	2	TH-50PX60B
C8361	EEEHB1C470P	C 47PF, J, 16V	1	TH-50PX60B
C8372	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8376	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8397	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8401	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8403,04	ECJ0EF1C104Z	C 0.10UF, Z, 16V	2	TH-50PX60B
C8406	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8409	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8410	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8413,14	ECJ0EF1C104Z	C 0.10UF, Z, 16V	2	TH-50PX60B
C8416,17	ECJ0EF1C104Z	C 0.10UF, Z, 16V	2	TH-50PX60B
C8419	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8421	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8423	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8424	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8425	ECJ0EB1A104K	C 0.1UF, K, 10V	1	TH-50PX60B
C8427	F2G1A101A019	E 100UF, 10V	1	TH-50PX60B
C8428	ECJ0EF1C104Z	C 0.10UF, Z, 16V	1	TH-50PX60B
C8430-32	ECJ0EF1C104Z	C 0.10UF, Z, 16V	3	TH-50PX60B
C8433,34	ECJ0EB1C103K	C0.010UF, K, 16V	2	TH-50PX60B
C8467	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C8501,02	ECJ0EC1H180J	C 180PF, K, 50V	2	TH-50PX60B
C8504	ECJ1VF1A105Z	C 1UF, Z, 10V	1	TH-50PX60B
C8506	ECJ2VF1C105Z	C 1UF, Z, 16V	1	TH-50PX60B
C8507	ECJ1XC1H102J	C 1000PF, J, 50V	1	TH-50PX60B
C8508	ECJ1XF1C334Z	C 0.33UF, Z, 16V	1	TH-50PX60B
C8509	EEEHB0J101P	C 100PF, J, 6.3V	1	TH-50PX60B
C8870	ECJ1XC1H471J	C 470PF, J, 50V	1	TH-50PX60B
C8872	ECJ2FB0J225K	C 2.2UF, Z, 16V	1	TH-50PX60B
C8910	ECJ0EB1C103K	C0.010UF, K, 16V	1	TH-50PX60B
C9028,29	F1J0J1060004	C 0.010UF, K, 16V	2	
C9033,34	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9035,36	F1J0J1060004	C 0.010UF, K, 16V	2	
C9037	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C9039	F1J0J1060004	C 0.010UF, K, 16V	1	
C9040	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9044-53	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C9055-57	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9058	F1J0J1060004	C 0.010UF, K, 16V	1	
C9300-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	26	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9327-51	ECJ1XB1C104K	C 0.1UF, Z, 16V	25	
C9352	EEFCD0G560ER	56UF,	1	
C9355-59	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C9360-64	ECJ3XB0J106M	C 10UF, M,6.3V	5	
C9365	EEFCD0G560ER	56UF,	1	
C9366,67	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
C9368	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9442-70	ECJ1XB1C104K	C 0.1UF, Z, 16V	29	
C9472-96	ECJ1XB1C104K	C 0.1UF, Z, 16V	25	
C9497	EEFCD0G560ER	56UF,	1	
C9512,13	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9514,15	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9516-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	10	
C9526	F1J0J1060004	C 0.010UF, K, 16V	1	
C9527-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9531	F1J0J1060004	C 0.010UF, K, 16V	1	
C9532	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9533	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9534-38	ECJ3XB0J106M	C 10UF, M,6.3V	5	
C9539	EEFCD0G560ER	56UF,	1	
C9540,41	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
C9542	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9546,47	ECJ1VC1H120J	C 12PF, J, 50V	2	
C9548	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9552	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9554	F1J0J1060004	C 0.010UF, K, 16V	1	
C9557	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9601	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9608	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9800	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9801	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9802	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9803	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9804	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9805	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9806	ECGRL0G680ER	C 68PF, J, 4V	1	
C9807,08	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9809	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9815,16	ECGRL0G680ER	C 68PF, J, 4V	2	
C9817,18	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9822	F1J0J1060004	C 0.010UF, K, 16V	1	
C9823,24	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9825	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9826	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9827	F1J0J1060004	C 0.010UF, K, 16V	1	
C9830-32	ECJ3XB1C106M	C 1.0UF, K, 16V	3	
C9833	ECJ3YB1E106M	C 10 UF, K, 25V	1	
C9837	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C9838	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9840	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9841,42	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9843	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9844	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9845,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9847,48	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C9880,81	ECJ1XB1H102K	C 1000UF, Z, 50V	2	
C9882	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9883	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9884	ECJ1VC1H100C	C 10PF, C, 50V	1	
C9885	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9886	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9887	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9891	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9896	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9897	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9898	ECJ1VC1H100C	C 10PF, C, 50V	1	
C9899	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9926	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9967	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9971	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
CA1-11	K1MN68BA0002	68P CONNECTOR	11	
CB1-11	K1MN68BA0002	68P CONNECTOR	11	
D3	K1KY40B00003	40P CONNECTOR	1	
D5	K1KB31BA0064	31P CONNECTOR	1	
D6	K1KA21A00011	21P CONNECTOR	1	
D20	K1KA20BA0296	20P CONNECTOR	1	
D25	K1KA20AA0009	20P CONNECTOR	1	
D31	K1MN80BA0076	80P CONNECTOR	1	
D32	K1MN55BA0076	55P CONNECTOR	1	
D33	K1MN68BA0076	68P CONNECTOR	1	
D34	K1MN80BA0076	80P CONNECTOR	1	
D1106,07	MA729	DIODE	2	
D1117	MA3036L	ZENER DIODE	1	
D1119	MA704A	DIODE	1	
D1121	MA729	DIODE	1	
D2011-14	MA111	DIODE	4	
D2119	B0BC01100001	ZENER DIODE	1	
D2300,01	MA111	DIODE	2	
D2303,04	MA111	DIODE	2	
D2309	MA111	DIODE	1	
D2510,11	MA8056-M	ZENER DIODE	2	
D2512	MA8043LTX	ZENER DIODE	1	
D2520B	LN1271RALTR	LED	1	
D2524	MA8056-M	ZENER DIODE	1	
D2525B	LN1471YTR	LED	1	TH-50PX60B
D2526	MA8056-M	ZENER DIODE	1	TH-50PX60B
D3002-12	MA8140M	ZENER DIODE	11	
D3015,16	MA8140M	ZENER DIODE	2	
D3021-23	MA111	DIODE	3	
D3024	B0BC01100001	ZENER DIODE	1	
D3025	MA8140M	ZENER DIODE	1	
D3027,28	MA8140M	ZENER DIODE	2	
D3030-32	MA8140M	ZENER DIODE	3	
D3038-43	MA8140M	ZENER DIODE	6	
D3044	MA111	DIODE	1	
D3100	MA8140M	ZENER DIODE	1	
D3334-39	MA111	DIODE	6	
D3702	MA8140M	ZENER DIODE	1	
D4019-38	EZJZ0V80008B	VARISTOR	20	
D4041	EZJZ0V80008B	VARISTOR	1	
D4044,45	EZJZ0V80008B	VARISTOR	2	

[illegible]	[illegible]	VARISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D4047,48	MA3056M	ZENER DIODE	2	
D4049-52	B0HCMM000014	DIODE	4	
D5606	B0BC01100001	ZENER DIODE	1	
D5607	B0BC6R600005	ZENER DIODE	1	
D5610	B0BC4R700007	ZENER DIODE	1	(PA)
D5610	MA3X78900L	ZENER DIODE	1	(H)
D5612	B0BC3R700006	ZENER DIODE	1	
D5618	B0BC03900015	ZENER DIODE	1	
D5634	MA111	DIODE	1	
D5635	MA3047H	ZENER DIODE	1	
D5637,38	MA152	DIODE	2	
D5639	MA3047H	ZENER DIODE	1	
D5640	MA3039H	ZENER DIODE	1	
D5641	MA152	DIODE	1	
D5642	MA3120M	ZENER DIODE	1	
D5643	MA152	DIODE	1	
D5644	MA3068M	ZENER DIODE	1	
D5646,47	MA152	DIODE	2	
D5649	MA111	DIODE	1	
D5801	B0JCME000037	DIODE	1	
D5804	MA3120M	ZENER DIODE	1	
D5805,06	MA152	DIODE	2	
D5807	MA111	DIODE	1	
D6001	B0HBSN000008	DIODE	1	
D6021,22	B0HBSN000008	DIODE	2	
D6032	MA111	DIODE	1	
D6041	B0ECHP000003	DIODE	1	
D6051	B0ECHP000003	DIODE	1	
D6061,62	B0HBSN000008	DIODE	2	
D6071,72	B0HBSN000008	DIODE	2	
D6081,82	B0HBSN000008	DIODE	2	
D6091	B0HBSN000008	DIODE	1	
D6092	B0ECHP000003	DIODE	1	
D6101-04	B0JCME000037	DIODE	4	
D6105	MA111	DIODE	1	
D6131,32	B0ECHP000003	DIODE	2	
D6151-54	B0ECHP000003	DIODE	4	
D6191-93	B0ECHP000003	DIODE	3	
D6211	B0JCME000037	DIODE	1	
D6212	B0ECHP000003	DIODE	1	
D6221	B0ECHP000003	DIODE	1	
D6222,23	MA111	DIODE	2	
D6251,52	MA8330M	ZENER DIODE	2	
D6253	LNJ301MPUJA	LED	1	
D6254	MA8051L	ZENER DIODE	1	
D6255	MA111	DIODE	1	
D6401	B0HBSN000008	DIODE	1	
D6404	B0HBSN000008	DIODE	1	
D6431,32	B0HBSP000019	DIODE	2	
D6441	B0ECHP000003	DIODE	1	
D6451	B0ECHP000003	DIODE	1	
D6461,62	B0HBSN000008	DIODE	2	
D6466	MA111	DIODE	1	
D6471	B0HBSN000008	DIODE	1	
D6472	B0ECHP000003	DIODE	1	
D6477	MA111	DIODE	1	
D6478	B0HCKS000002	DIODE	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6480	MA111	DIODE	1	
D6481,82	B0HBSN000008	DIODE	2	
D6491	B0HBSP000019	DIODE	1	
D6497	MA111	DIODE	1	
D6501,02	B0ECHP000003	DIODE	2	
D6521-24	B0ECHP000003	DIODE	4	
D6581,82	MA8330M	ZENER DIODE	2	
D6583	LNJ301MPUJA	LED	1	
D6584	MA8051L	ZENER DIODE	1	
D6585	MA111	DIODE	1	
D6601	MA8240M	ZENER DIODE	1	
D6602	B0ECHP000003	DIODE	1	
D6603	MA8240M	ZENER DIODE	1	
D6604	MA111	DIODE	1	
D6605	MA8051L	ZENER DIODE	1	
D6606	B0HCMM000014	DIODE	1	
D6607	MA111	DIODE	1	
D6610	MAZ81500ML	ZENER DIODE	1	
D6611-14	MA111	DIODE	4	
D6619,20	B0HCKS000002	DIODE	2	
D6621-24	B0HDSM000005	DIODE	4	
D6641,42	B0HCKS000002	DIODE	2	
D6643	MA111	DIODE	1	
D6644	B0HCKS000002	DIODE	1	
D6661	MA111	DIODE	1	
D6662-64	MA8330M	ZENER DIODE	3	
D6665	MA8051L	ZENER DIODE	1	
D6666,67	MA111	DIODE	2	
D6671	MA111	DIODE	1	
D6682	B0HCMM000014	DIODE	1	
D6683,84	MA111	DIODE	2	
D6686,87	MA111	DIODE	2	
D6701,02	MA8056H	ZENER DIODE	2	
D6721	B0HCKS000002	DIODE	1	
D6723,24	B0JCME000037	DIODE	2	
D6725	B0ECHP000003	DIODE	1	
D6726-33	MA8056H	ZENER DIODE	8	
D6734	MA111	DIODE	1	
D6752	B0JCME000037	DIODE	1	
D6758	B0ECHP000003	DIODE	1	
D6760,61	MA111	DIODE	2	
D6771	B0JCME000037	DIODE	1	
D6773	B0HCKS000002	DIODE	1	
D6791	MA8200M	ZENER DIODE	1	
D6802	B0BC01000044	ZENER DIODE	1	
D6803	B0HCKS000002	DIODE	1	
D6804	B0ECHP000003	DIODE	1	
D6805	MA111	DIODE	1	
D6806	B0ECHP000003	DIODE	1	
D6807-10	B0HCMM000014	DIODE	4	
D6820-23	MA111	DIODE	4	
D6825	MA8330M	ZENER DIODE	1	
D6826	MA111	DIODE	1	
D6841	B0HCKS000002	DIODE	1	
D6842,43	MA111	DIODE	2	
D6859	B0ECHP000003	DIODE	1	
D6860	B0HCKS000002	DIODE	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6861	MA8051L	ZENER DIODE	1	
D6862	MA111	DIODE	1	
D6871	MA8051L	ZENER DIODE	1	
D6872	MA111	DIODE	1	
D6901,02	MA8056H	ZENER DIODE	2	
D6903,04	B0ECHP000003	DIODE	2	
D6951,52	MA8056H	ZENER DIODE	2	
D6953,54	B0ECHP000003	DIODE	2	
D8002	MA728	DIODE	1	TH-50PX60B
D8203,04	B0JCPE000004	DIODE	2	TH-50PX60B
D8501	B0CCAB000039	DIODE	1	TH-50PX60B
D9017-19	MA3033	ZENER DIODE	3	
D9020	MA728	DIODE	1	
D9035	MA728	DIODE	1	
D9100-03	B0JCGD000002	DIODE	4	
D9105,06	B0JCGD000002	DIODE	2	
D9110	B0JCGD000002	DIODE	1	
D9300,01	MA152K	DIODE	2	
D9400,01	MA152K	DIODE	2	
D9800	B0JCME000037	DIODE	1	
D9801	B0JCDD000002	DIODE	1	
D9802	MA728	DIODE	1	
D9804	MA152K	DIODE	1	
D9807,08	MA152K	DIODE	2	
D9812	B0JCME000037	DIODE	1	
D9813	B0JCDD000002	DIODE	1	
D9814	B0JCME000037	DIODE	1	
D9815	B0JCDD000002	DIODE	1	
DG1	K1KY80A00011	80P CONNECTOR	1	
DG2	K1KA15B00074	15P CONNECTOR	1	
DG3	K1KY40B00003	40P CONNECTOR	1	
DG5	K1KB21BA0063	21P CONNECTOR	1	
DG8,G9	K1FY119D0001	CONNECTOR	2	
DG15	K1KY40B00003	40P CONNECTOR	1	
DG20	K1MN40B00045	40P CONNECTOR	1	
DG22	K1KBB0A00009	CONNECTOR	1	TH-50PX60B
DG35	K1KA07BA0047	7P CONNECTOR	1	
FL3301,02	J0HABB000003	LC FILTER	2	
FL3303-05	J0HABB000004	LC FILTER	3	
FL4010,11	J0HABH000012	LC FILTER	2	TH-50PX60B
FL4015	J0HABH000012	LC FILTER	1	TH-50PX60B
FL7201	J0HABH000013	LC FILTER	1	
FL7301	J0HABH000013	LC FILTER	1	
FL7501	J0HABH000013	LC FILTER	1	
FL9300	F1J1E1040022	C 0.10UF, Z, 25V	1	
FL9301	J0HABH000013	LC FILTER	1	
FL9302-04	F1J1E1040022	C 0.10UF, Z, 25V	3	
FL9305,06	J0HABH000013	LC FILTER	2	
FL9400,01	J0HABH000013	LC FILTER	2	
FL9402-04	F1J1E1040022	C 0.10UF, Z, 25V	3	
FL9501,02	J0HABH000013	LC FILTER	2	
FL9800,01	J0HABH000013	LC FILTER	2	
FL9803,04	J0HABH000012	LC FILTER	2	
FL9805-07	J0HABH000013	LC FILTER	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
G1	K1KA12A00317	12P CONNECTOR	1	
G3	K1KA03BA0047	3P CONNECTOR	1	
G51	K1KA30AA0009	30P CONNECTOR	1	
GK3	K1KA03BA0061	3P CONNECTOR	1	
H1	K1KY80A00011	80P CONNECTOR	1	
H2	K1KA15A00148	15P CONNECTOR	1	
H5	K1KA15AA0288	15P CONNECTOR	1	
H6	K1KA09A00230	9P CONNECTOR	1	
H15	K1KA04AA0150	4P CONNECTOR	1	
H40	K1KA20AA0009	20P CONNECTOR	1	
H51	K1KA30AA0009	30P CONNECTOR	1	
HC01	K1KA21A00011	21P CONNECTOR	1	
HC12	K1KA09AA0190	9P CONNECTOR	1	
HC15	K1KY40B00003	40P CONNECTOR	1	
HC21	K1KA08AA0193	8P CONNECTOR	1	
HC22	K1KA11AA0194	11P CONNECTOR	1	
IC1100	C3ABPG000145	IC	1	
IC1101	TVRN774-1	IC	1	PAVCCZ
IC1102	TVRN758-5	IC	1	PAVCCZ
IC1103	MN103SB20RGL	IC	1	
IC1105,06	C0JBAS000128	IC	2	TH-50PX60B
IC1107	C0JBAS000128	IC	1	
IC1110	C0CBCAD00016	IC	1	
IC1111	C0EBY0000041	IC	1	
IC2103	AN77L08M	IC	1	
IC2104	C0ABBA000168	IC	1	
IC2105	AN15862A-VT	IC	1	
IC2106	C1AB00002468	IC	1	
IC2109	C1BB00000947	IC	1	
IC2110	AN7705SP	IC	1	
IC2302	C1AB00002451	IC	1	
IC2304	C0ABBA000168	IC	1	
IC2306	C0ABBA000168	IC	1	
IC2511	B3L000000020	IC	1	
IC3005	AN15867A-VT	IC	1	
IC3301	C0JBAZ002205	IC	1	
IC4013	C0CBCBF00009	IC	1	
IC4016	C0CBCAC00275	IC	1	
IC4018	C0CBCAC00275	IC	1	
IC4019	C1AB00002456	IC	1	
IC4022	TVRN916	IC	1	
IC4023	TVRN917	IC	1	
IC4025	C0FBBK000038	IC	1	
IC4026	C1AB00002535	IC	1	
IC4027	C0DBFFD00003	IC	1	
IC4028	C0ABBB000230	IC	1	
IC4029	C0CBCAC00282	IC	1	
IC4030	C0CBCBC00190	IC	1	
IC4032	C0DBGYY00052	IC	1	
IC4035	C0CBCAF00031	IC	1	
IC4036	C0JBAP000020	IC	1	
IC4037	MN84522-A	IC	1	
IC4038	C3ABQJ000048	IC	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC5601	N0BG2DE00001	IC	1	
IC5602	EHMDD9851	LINEAR IC	1	
IC5603	C0DBAJB00004	IC	1	
IC5604	C0DBZGC00067	IC	1	
IC5801	C0DBAZF00003	IC	1	
IC6131	C0ZBZ0000895	IC	1	
IC6151	C0ZBZ0001324	IC	1	
IC6191	C0ZBZ0000895	IC	1	
IC6211	C0ZBZ0001325	IC	1	
IC6221	C0DBEMB00005	IC	1	
IC6241	C0JBAZ000005	IC	1	
IC6251	NJM2903M	INTEGRATED CIRCUIT	1	
IC6471	C0DBEKA00003	IC	1	
IC6472	C0JBAA000377	IC	1	
IC6501	C0ZBZ0000895	IC	1	
IC6521	C0ZBZ0001324	IC	1	
IC6561,62	C0JBAZ000005	IC	2	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	
IC6601	C0ZBZ0001325	IC	1	
IC6602	C0JBAB000715	IC	1	
IC6610	NJM2903M	INTEGRATED CIRCUIT	1	
IC6671	C0ZBZ0001325	IC	1	
IC6681	C0ZBZ0001325	IC	1	
IC6682	C0JBAA000377	IC	1	
IC6721,22	C0JBAZ000994	IC	2	
IC6724,25	C0CBADC00089	IC	2	
IC6751	C0CBADC00089	IC	1	
IC6752	C0ZBZ0001325	IC	1	
IC6753	C0JBAB000715	IC	1	
IC6771	C0CBADC00089	IC	1	
IC6772	C0ZBZ0001325	IC	1	
IC6773,74	C0JBAA000377	IC	2	
IC6791	N0BF1FB00001	IC	1	
IC6801,02	C0DBEMB00005	IC	2	
IC6803	C0DAAMH00005	IC	1	
IC6821	C0DBEMB00005	IC	1	
IC6841	C0DBEMB00005	IC	1	
IC6861	NJM2903M	INTEGRATED CIRCUIT	1	
IC6871	NJM2903M	INTEGRATED CIRCUIT	1	
IC6901-06	AN16071A-VT	IC	6	
IC6951-56	AN16071A-VT	IC	6	
IC7101	C0JBAZ001120	IC	1	
IC7201-09	C0JBAZ001120	IC	9	
IC7301-05	C0JBAZ001120	IC	5	
IC7401-05	C0JBAZ001120	IC	5	
IC7501-09	C0JBAZ001120	IC	9	
IC7601	C0JBAZ001120	IC	1	
IC8003	STV0360CT	IC	1	TH-50PX60B PAVCCZ
IC8009	C3ABQG000095	IC	1	TH-50PX60B PAVCCZ
IC8013	MN2WS0025BEA	IC	1	TH-50PX60B PAVCCZ
IC8019	TVRN789-2	IC	1	TH-50PX60B PAVCCZ
IC8023,24	C0DBAMH00018	IC	2	TH-50PX60B
IC8029	C0FBBK000038	IC	1	TH-50PX60B
IC8031	BA15218FDX	IC	1	TH-50PX60B
IC8034	C0DBEHG00006	IC	1	TH-50PX60B
IC8042	C0EBM0000026	IC	1	TH-50PX60B
IC8213	C0JBAZ001137	IC	1	TH-50PX60B

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC8402	74LVC4245AD	IC	1	TH-50PX60B PAVCCZ
IC8404	C0JBAZ002691	IC	1	TH-50PX60B PAVCCZ
IC8405	C0ZBZ0001333	IC	1	TH-50PX60B PAVCCZ
IC8408-11	C0JBAZ002691	IC	4	TH-50PX60B PAVCCZ
IC8412	C0JBAZ001137	IC	1	TH-50PX60B
IC8501	74VHCU04MXNL	IC	1	TH-50PX60B PAVCCZ
IC8864	C0DBFFD00003	IC	1	TH-50PX60B
IC9001	TVRN811-2	IC	1	
IC9002	C0ZBZ0001330	IC	1	
IC9003	TVRN805-1	IC	1	
IC9007	TVRN814-1	IC	1	
IC9011	C0EBF0000431	IC	1	
IC9200	C1ZBZ0003186	IC	1	
IC9300	MN84521-A	IC	1	
IC9301	C3ABQJ000051	IC	1	
IC9304	TVRN825-1	IC	1	PAVCCZ
IC9400	MN84521-A	IC	1	
IC9401	C3ABQJ000051	IC	1	
IC9402	C0JBAZ002614	IC	1	
IC9500	C1ZBZ0002599	IC	1	
IC9503-05	C0JBAZ001120	IC	3	
IC9602	PST9128NR	IC (LOGIC)	1	
IC9800	C0DBAYY00054	IC	1	
IC9801	C0DBZFG00066	IC	1	
IC9802,03	C0JBAZ001120	IC	2	
IC9806	C0DBAHD00011	IC	1	
IC9807	C0DBAYY00054	IC	1	
IC9809	C0DBAYY00054	IC	1	
JK2002,03	K4BK03A00002	AV TERMENAL	2	
JK3001	K1FB315A0005	JACK	1	
JK3002A-4A	K1FB121A0011	JACK	3	PAVCCZ
JK3005	K2HA307A0007	JACK	1	PAVCCZ
JK3701	K4AK23B00001	TERMINAL BOARD	1	PAVCCZ
JK8401	K1NA68B00042	68P CONNECTOR	1	TH-50PX60B PAVCCZ
JS001	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-50PX60B
JS012	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-50PX60B
JS1100-02	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
JS1109	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS1117	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS2021,22	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS2026	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS2031-33	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS2108,09	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS2123,24	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS2300-03	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2319	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3002	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3005	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3007-20	ERJ6GEY0R00	M 0 OHM, 1/10W	14	
JS3023	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3037-39	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS3201	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3206	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3215	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JS3230	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3237	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3239	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3252	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3255	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3256,57	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS3302-04	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS3307-12	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JS3352	J0JCC0000241	CHIP INDUCTOR	1	
JS3354-59	J0JCC0000241	CHIP INDUCTOR	6	
JS3362,63	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS3402,03	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS3404,05	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS3704,05	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS3707,08	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS3711-14	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS3715	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS4016,17	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
JS4022-24	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
JS4025,26	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
JS4027,28	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
JS4029	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
JS4033-40	ERJ2GE0R00	M 0.0 OHM, J,0.063W	8	
JS4042,43	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
JS4046	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PV60E
JS4047,48	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
JS4069	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
JS4075	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
JS4077	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
JS4079	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
JS4094	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PV60E
JS4103	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PV60E
JS4104	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS4111	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS4116	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
JS5601	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	K1KY12B00001	12P CONNECTOR	1	
L008	J0JCC0000241	CHIP INDUCTOR	1	
L012	J0JCC0000241	CHIP INDUCTOR	1	
L017	J0JCC0000241	CHIP INDUCTOR	1	
L018	J0JGC0000021	CHIP INDUCTOR COIL	1	
L019	J0JCC0000241	CHIP INDUCTOR	1	TH-50PV60E
L020	J0JGC0000021	CHIP INDUCTOR COIL	1	
L021	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L1101-04	J0JHC0000078	CHIP INDUCTOR	4	
L1109	J0JHC0000078	CHIP INDUCTOR	1	
L2001,02	J0JCC0000364	CHIP INDUCTOR	2	
L2003-16	TSK1032	BEAD CHOKE	14	
L2107	TSK1032	BEAD CHOKE	1	
L2108	J0JCC0000241	CHIP INDUCTOR	1	
L2109,10	TSK1032	BEAD CHOKE	2	
L2111,12	J0JCC0000241	CHIP INDUCTOR	2	
L2115	J0JCC0000241	CHIP INDUCTOR	1	
L2117	ELESE6R8KA	PEAKING COIL	1	
L2118	EXCELDR35C	BEAD CHOKE	1	

[illegible]	[illegible]	BEAD CHOKE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L2123	J0JCC0000241	CHIP INDUCTOR	1	
L2178,79	J0JCC0000241	CHIP INDUCTOR	2	
L2182-87	J0JCC0000241	CHIP INDUCTOR	6	
L2204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L2205,06	J0JCC0000241	CHIP INDUCTOR	2	
L2300-03	G0C330MA0049	PEAKING COIL	4	
L2308	TALL08N3R9MA	INDUCTION COIL	1	
L3000	G0C101K00023	PEAKING COIL	1	
L3001-03	TSK1032	BEAD CHOKE	3	
L3009	TSK1032	BEAD CHOKE	1	
L3026	TSK1032	BEAD CHOKE	1	
L3202	J0JCC0000241	CHIP INDUCTOR	1	
L3205	J0JCC0000241	CHIP INDUCTOR	1	
L3700,01	J0JCC0000364	CHIP INDUCTOR	2	
L3707,08	TSK1032	BEAD CHOKE	2	
L4023	J0JHC0000078	CHIP INDUCTOR	1	
L4029	J0JHC0000078	CHIP INDUCTOR	1	
L4031	J0JHC0000078	CHIP INDUCTOR	1	
L4038	J0JHC0000078	CHIP INDUCTOR	1	
L4040-46	J0JHC0000078	CHIP INDUCTOR	7	
L4048	J0JHC0000078	CHIP INDUCTOR	1	
L4049	J0JBC0000080	CHIP INDUCTOR	1	
L4050,51	J0JHC0000078	CHIP INDUCTOR	2	
L4052	J0JCC0000077	CHIP INDUCTOR	1	
L4053-55	J0JHC0000078	CHIP INDUCTOR	3	
L4056,57	J0JCC0000077	CHIP INDUCTOR	2	
L4060,61	J0JCC0000077	CHIP INDUCTOR	2	
L4065,66	J0JHC0000078	CHIP INDUCTOR	2	
L4068-70	J0JHC0000078	CHIP INDUCTOR	3	
L4071	J0JBC0000080	CHIP INDUCTOR	1	
L4073	J0JHC0000078	CHIP INDUCTOR	1	
L4075,76	J0JHC0000078	CHIP INDUCTOR	2	
L4077	J0JCC0000077	CHIP INDUCTOR	1	
L4078	J0JHC0000078	CHIP INDUCTOR	1	
L5602	TALL08N2R7MA	INDUCTION COIL	1	
L5604	TALL08N2R7MA	INDUCTION COIL	1	
L5605	G0A2R7ZA0021	CHOKE COIL	1	
L5606,07	G0A220GA0002	CHOKE COIL	2	
L5608	G1C100MA0072	INDUCTION COIL	1	
L5609	G0A220GA0002	CHOKE COIL	1	
L5610	G1C470MA0077	INDUCTION COIL	1	
L5612	TALL08N2R7MA	INDUCTION COIL	1	
L5615	TALL08N150KA	INDUCTION COIL	1	
L5621	G1C330MA0234	INDUCTION COIL	1	
L5622,23	G1C150MA0234	INDUCTION COIL	2	
L5624	G1C330MA0234	INDUCTION COIL	1	
L5651	G0A220GA0002	CHOKE COIL	1	
L5801	G0C101K00023	PEAKING COIL	1	
L5802	TALL08N101KA	INDUCTION COIL	1	
L6002-04	G0CR82KA0147	CHOKE COIL	3	
L6011-14	G0A1R4MA0003	CHOKE COIL	4	
L6061-68	G0ZZ00002183	PEAKING COIL	8	
L6081-88	G0ZZ00002183	PEAKING COIL	8	
L6101,02	J0JJC0000011	CHIP INDUCTOR	2	
L6103	G0ZZ00002183	PEAKING COIL	1	
L6104,05	J0JJC0000011	CHIP INDUCTOR	2	
L6211,12	J0JJC0000011	CHIP INDUCTOR	2	

[illegible]	[illegible]	CHIP INDUCTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L6221	G0ZZ00002183	PEAKING COIL	1	
L6241	G0ZZ00002183	PEAKING COIL	1	
L6262	G0ZZ00002183	PEAKING COIL	1	
L6271,72	G0ZZ00002183	PEAKING COIL	2	
L6398,99	J0JJC0000011	CHIP INDUCTOR	2	
L6401,02	G0CR82KA0147	CHOKE COIL	2	
L6404	G0CR82KA0147	CHOKE COIL	1	
L6411-14	G0A1R4MA0003	CHOKE COIL	4	
L6461-68	G0ZZ00002183	PEAKING COIL	8	
L6472,73	G0ZZ00002183	PEAKING COIL	2	
L6481-88	G0ZZ00002183	PEAKING COIL	8	
L6591,92	G0ZZ00002183	PEAKING COIL	2	
L6601,02	G0ZZ00002183	PEAKING COIL	2	
L6801,02	J0JJC0000011	CHIP INDUCTOR	2	
L6841	J0JJC0000011	CHIP INDUCTOR	1	
L8004	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8008	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8026	J0JHC0000035	CHIP INDUCTOR	1	TH-50PX60B
L8031-33	J0JHC0000045	CHIP INDUCTOR	3	TH-50PX60B
L8037	J0JCC0000078	CHIP INDUCTOR	1	TH-50PX60B
L8038	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8042	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8046	ELJPA1R0MFB	INDUCTION COIL	1	TH-50PX60B
L8047	G1C680MA0173	INDUCTION COIL	1	TH-50PX60B PAVCCZ
L8048	G1C330MA0173	INDUCTION COIL	1	TH-50PX60B PAVCCZ
L8049	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8051	J0JCC0000241	CHIP INDUCTOR	1	TH-50PX60B
L8055	G1C100MA0077	INDUCTION COIL	1	TH-50PX60B
L8059	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8106	ELJFA2R7JBB	CHIP INDUCTOR	1	TH-50PX60B PAVCCZ
L8145	J0JHC0000045	CHIP INDUCTOR	1	TH-50PX60B
L8501	ELJNA2R7JFB	CHIP INDUCTOR	1	TH-50PX60B
L9501,02	J0JHC0000078	CHIP INDUCTOR	2	
L9503	G1C150KA0038	INDUCTION COIL	1	
L9800	G1C3R0MA0248	INDUCTION COIL	1	
L9801,02	G1C2R2MA0241	INDUCTION COIL	2	
L9810	J0JHC0000045	CHIP INDUCTOR	1	
PA2	K1KA05AA0192	5P CONNECTOR	1	
PA5	K1KA11AA0194	11P CONNECTOR	1	
PA10	K1KA06A00452	6P CONNECTOR	1	
PA20	K1MN40A00024	40P CONNECTOR	1	
PA31-34	K1KA03AA0192	3P CONNECTOR	4	
PA40	K1KA20AA0009	20P CONNECTOR	1	
PA1101	K5H8012A0023	FUSE	1	
PA2100	K5H1622A0023	FUSE	1	
PA3100	K5H1622A0023	FUSE	1	
PA3104	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
PA9800	K5H4022A0023	FUSE	1	
PC6480	B3PBA0000223	IC	1	
PC6701-03	B3PBA0000233	IC	3	
PC6704	B3PBA0000234	IC	1	
PC6705	B3PBA0000233	IC	1	
PC6760	B3PBA0000223	IC	1	
PC6801	B3PBA0000223	IC	1	
PC6861	B3PBA0000223	IC	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PC6871	B3PBA0000223	IC	1	
Q002	2SA207700L	TRANSISTOR	1	
Q1100-03	2SC584500L	TRANSISTOR	4	
Q1106,07	2SC584500L	TRANSISTOR	2	TH-50PX60B
Q1108	2SC584500L	TRANSISTOR	1	
Q1109,10	B1CBHD000002	FET	2	
Q1111	2SC584500L	TRANSISTOR	1	
Q1113-18	2SC584500L	TRANSISTOR	6	
Q1120-22	2SC584500L	TRANSISTOR	3	
Q1130	2SC584500L	TRANSISTOR	1	
Q1131	B1ABDF000034	TRANSISTOR	1	
Q1134	2SC584500L	TRANSISTOR	1	
Q1135	B1ABDF000034	TRANSISTOR	1	
Q1137-43	2SC584500L	TRANSISTOR	7	
Q2001-04	B1ABDF000034	TRANSISTOR	4	
Q2006,07	B1ABDF000034	TRANSISTOR	2	
Q2009,10	B1ABDF000034	TRANSISTOR	2	
Q2011	2SA207700L	TRANSISTOR	1	
Q2012	B1ABDF000034	TRANSISTOR	1	
Q2013	2SA207700L	TRANSISTOR	1	
Q2102-05	2SA207700L	TRANSISTOR	4	
Q2106	B1ABDF000034	TRANSISTOR	1	
Q2108	B1ABDF000034	TRANSISTOR	1	
Q2113,14	B1ABDF000034	TRANSISTOR	2	
Q2300	2SA207700L	TRANSISTOR	1	(H)
Q2300	B1ABDF000034	TRANSISTOR	1	(PA)
Q2301	2SD601A	TRANSISTOR	1	
Q2302	2SD601A	TRANSISTOR	1	(H)
Q2302	B1ABDF000034	TRANSISTOR	1	(PA)
Q2303	2SD601A	TRANSISTOR	1	
Q2306,07	2SA207700L	TRANSISTOR	2	
Q2314-17	B1ABDF000034	TRANSISTOR	4	
Q2510,11	2SD601A	TRANSISTOR	2	
Q2518	2SD601A	TRANSISTOR	1	TH-50PX60B
Q3001	B1ABDF000034	TRANSISTOR	1	
Q3005	B1ABDF000034	TRANSISTOR	1	
Q3008	2SA207700L	TRANSISTOR	1	
Q3011	2SA207700L	TRANSISTOR	1	
Q3014,15	2SA207700L	TRANSISTOR	2	
Q3016	B1ABDF000034	TRANSISTOR	1	
Q3017	2SA207700L	TRANSISTOR	1	
Q3019-22	B1ABDF000034	TRANSISTOR	4	
Q3024	B1ABDF000034	TRANSISTOR	1	
Q3027-29	2SA207700L	TRANSISTOR	3	
Q3331-33	2SC2480	TRANSISTOR	3	
Q4050	2SC584500L	TRANSISTOR	1	
Q4053	2SC584500L	TRANSISTOR	1	
Q4055-59	2SA207700L	TRANSISTOR	5	
Q4061-69	2SC584500L	TRANSISTOR	9	
Q4070,71	B1MBACA00008	TRANSISTOR	2	
Q4082,83	2SK1228	FET	2	
Q4084	B1ABDF000034	TRANSISTOR	1	
Q4918	B1ABDF000034	TRANSISTOR	1	
Q4919	2SC584500L	TRANSISTOR	1	
Q5601	B1DHDC000028	TRANSISTOR	1	
Q5602	2SD601A	TRANSISTOR	1	

Q6002	2SD601A	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q5603	B1DHDC000028	TRANSISTOR	1	
Q5604,05	2SD601A	TRANSISTOR	2	
Q5610	2SD601A	TRANSISTOR	1	
Q5613	2SD601A	TRANSISTOR	1	
Q5614	2SK3065T100	FET	1	
Q5641-43	2SA207700L	TRANSISTOR	3	
Q5644	2SD601A	TRANSISTOR	1	
Q6001-03	B1JADN000001	TRANSISTOR	3	
Q6021-23	B1JADN000001	TRANSISTOR	3	
Q6041-43	B1JADN000002	TRANSISTOR	3	
Q6052,53	B1JADN000002	TRANSISTOR	2	
Q6101,02	B1DFKM000002	TRANSISTOR	2	
Q6103	B1ABNF000006	TRANSISTOR	1	
Q6104	B1ADNF000006	TRANSISTOR	1	
Q6105,06	B1DFKM000002	TRANSISTOR	2	
Q6111	2SK326800L	FET	1	
Q6112	B1DFKM000002	TRANSISTOR	1	
Q6114	B1DFKM000002	TRANSISTOR	1	
Q6141	B1ABNF000006	TRANSISTOR	1	
Q6142	B1ADNF000006	TRANSISTOR	1	
Q6146	B1ABNF000006	TRANSISTOR	1	
Q6147	B1ADNF000006	TRANSISTOR	1	
Q6171	2SD2185	TRANSISTOR	1	
Q6172	B1ADRD000001	TRANSISTOR	1	
Q6181	2SD2185	TRANSISTOR	1	
Q6182	B1ADRD000001	TRANSISTOR	1	
Q6221	2SD1263A	TRANSISTOR	1	
Q6222	2SC3063	TRANSISTOR	1	
Q6251	2SD601A	TRANSISTOR	1	
Q6401-03	B1JADN000001	TRANSISTOR	3	
Q6421-23	B1JAEP000001	TRANSISTOR	3	
Q6441-43	B1JADN000002	TRANSISTOR	3	
Q6452,53	B1JADP000002	TRANSISTOR	2	
Q6471	B1CHGD000006	TRANSISTOR	1	
Q6511	B1ABNF000006	TRANSISTOR	1	
Q6512	B1ADNF000006	TRANSISTOR	1	
Q6516	B1ABNF000006	TRANSISTOR	1	
Q6517	B1ADNF000006	TRANSISTOR	1	
Q6531	2SD2185	TRANSISTOR	1	
Q6532	B1ADRD000001	TRANSISTOR	1	
Q6551	2SD2185	TRANSISTOR	1	
Q6552	B1ADRD000001	TRANSISTOR	1	
Q6581	2SD601A	TRANSISTOR	1	
Q6601	B1DEDS000001	TRANSISTOR	1	
Q6602	2SD601A	TRANSISTOR	1	
Q6621,22	B1DFKM000001	TRANSISTOR	2	
Q6641-45	B1DFKM000001	TRANSISTOR	5	
Q6647,48	B1DFKM000001	TRANSISTOR	2	
Q6661	B1DEET000002	TRANSISTOR	1	
Q6662	2SD601A	TRANSISTOR	1	
Q6663	2SD2185	TRANSISTOR	1	
Q6671-73	B1DEDS000001	TRANSISTOR	3	
Q6680	B1ADNF000006	TRANSISTOR	1	
Q6681,82	2SK389500L	FET	2	
Q6691	2SK620	FET	1	
Q6742,43	2SD601A	TRANSISTOR	2	
Q6744	2SK620	FET	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6762	B1ADNF000006	TRANSISTOR	1	
Q6781	B1ABNF000006	TRANSISTOR	1	
Q6782	B1ADNF000006	TRANSISTOR	1	
Q6791	2SD601A	TRANSISTOR	1	
Q6803	2SD814A	TRANSISTOR	1	
Q6821	2SD1263A	TRANSISTOR	1	
Q6822	2SC3063	TRANSISTOR	1	
Q6824	2SD601A	TRANSISTOR	1	
Q6841	2SD1263A	TRANSISTOR	1	
Q6842	2SC1473A	TRANSISTOR	1	
Q8101	2SA207700L	TRANSISTOR	1	TH-50PX60B
Q8401,02	2SD601A	TRANSISTOR	2	TH-50PX60B
Q9044	2SD601A	TRANSISTOR	1	
Q9046	2SD601A	TRANSISTOR	1	
Q9049	2SB709A	TRANSISTOR	1	
Q9050-54	2SD601A	TRANSISTOR	5	
Q9057,58	B1CBHD000002	FET	2	
Q9100	2SD601A	TRANSISTOR	1	
Q9200,01	B1CBHD000002	FET	2	
Q9301,02	2SD601A	TRANSISTOR	2	
Q9400-02	2SD601A	TRANSISTOR	3	
Q9800,01	B1MBEDA00015	TRANSISTOR	2	
Q9803	B1MBEDA00015	TRANSISTOR	1	
Q9805,06	2SD601A	TRANSISTOR	2	
R002	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R005	ERJ3EKF5600	M 560 OHM, 1/16W	1	
R008,09	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R010	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R011	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R012,13	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R014	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1101	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1102,03	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R1105,06	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R1113	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R1116	ERJ2GEJ562	M 5.6KOHM,J,0.063W	1	
R1117	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1118,19	EXB2HV680J	RESISTOR ARRAY	2	
R1121,22	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1123	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1124,25	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	
R1128	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R1129	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1130	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1131,32	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1133,34	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R1135	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1140,41	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
R1145	ERJ2GEJ101	M 100 OHM, J,0.063W	1	TH-50PX60B
R1146	ERJ2GEJ271	M 270 OHM, J,0.063W	1	
R1147,48	D1HG5608A002	NETWORK RESISTER	2	
R1149	EXB2HV680J	RESISTOR ARRAY	1	
R1150	ERJ2GEJ101	M 100 OHM, J,0.063W	1	TH-50PX60B
R1151	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1153	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1154,55	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1156	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1157	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1158	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1159	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1160	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1162	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1164	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1165	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R1166,67	ERJ2GEJ101	M 100 OHM, J,0.063W	2	TH-50PX60B
R1168,69	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R1174	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1175	ERJ2GEJ563	M 56KOHM ,J,0.063W	1	
R1176	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1177-79	ERJ2GEJ101	M 100 OHM, J,0.063W	3	
R1181	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1182	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
R1183	EXB28V680JX	RESISTOR ARRAY	1	
R1184	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1187	EXB2HV680J	RESISTOR ARRAY	1	
R1188,89	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R1197	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1199	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1200	EXB2HV680J	RESISTOR ARRAY	1	
R1203	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1207	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1212	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1214	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1215-17	ERJ2GEJ101	M 100 OHM, J,0.063W	3	
R1218	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1220	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1221	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R1222	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R1223	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1224	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1225,26	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1228	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R1229	ERJ2GEJ182	M 1.8KOHM, J,0.063W	1	
R1230	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R1231	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1232,33	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	
R1234	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1235,36	ERJ2GEJ272	M 2.7KOHM, J,0.063W	2	
R1238	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1239	ERJ3EKF1202	M 12KOHM, 1/16W	1	
R1240	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1241	ERJ2GEJ822	M 8.2KOHM, J,0.063W	1	
R1243	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1246	ERJ2GEJ912	M 9.1KOHM, J,0.063W	1	
R1249	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1250	ERJ2GEJ224	M 220KOHM, J,0.063W	1	
R1251,52	EXB2HV101J	RESISTOR ARRAY	2	
R1256	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1259	ERJ2GEJ101	M 100 OHM, J,0.063W	1	TH-50PX60B
R1263,64	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1269	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1270,71	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1275	ERJ3EKF7151	M7.15KOHM, 1/16W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1279,80	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1281	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1282	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R1283	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1284	ERJ2GEJ682	M 6.8KOHM, J,0.063W	1	
R1290	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R1292,93	ERJ2GEJ104	M 100KOHM, J,0.063W	2	TH-50PX60B
R1296,97	ERJ2GEJ473	M 47KOHM,J,0.063W	2	TH-50PX60B
R1299-02	ERJ2GE0R00	M 0.0 OHM, J,0.063W	4	TH-50PV60E
R1303-06	ERJ2GEJ220	M 22 OHM, J,0.063W	4	TH-50PV60E
R1307	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1308	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1309-12	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R1313,14	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R1315	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R1316	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1318,19	ERJ2GEJ512X	M5.12KOHM, J,0.063W	2	
R1321	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R1322	ERJ2GEJ100	M 10 OHM, J,0.063W	1	
R1323,24	ERJ2GEJ823	M 82KOHM, J,0.063W	2	
R1325,26	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
R1327,28	ERJ2GEJ683	M 68KOHM, J,0.063W	2	
R1329,30	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R1331,32	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
R1333	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1334	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1335	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1336	ERJ2GEJ225	M 1MOHM, J,0.063W	1	
R1337	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R1340	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1341	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1344	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1346	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1350,51	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1352	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1353	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R1354	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1355	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1358	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1359	ERJ2GEJ224	M 220KOHM, J,0.063W	1	
R1360	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
R1361	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1363	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1364	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1365	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1367	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R1368	ERJ2GEJ183	M 18KOHM ,J,0.063W	1	
R1369	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1370	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1372	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1373	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
R1375	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1376	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1377	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R1378	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1379	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
R1380	ERJ2GEJ104	M 100KOHM, J,0.063W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1381	ERJ2GEJ474	M 470KOHM, J,0.063W	1	
R1384	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1389	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1408	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1410	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1411	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R1412,13	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
R1414	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1426-32	ERJ8GEY0R00	M 0 OHM, 1/8W	7	
R1436,37	ERJ2GEJ561	M 60 OHM, J,0.063W	2	
R1439	ERJ2GEJ271	M 270 OHM, J,0.063W	1	
R1441	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1446,47	ERJ2GEJ471	M 470 OHM, J,0.063W	2	
R1448,49	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R1451	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1452	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1454	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1458,59	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1461,62	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R1466	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1467	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1470	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1472,73	ERJ2GEJ301	M 300 OHM, J,0.063W	2	
R1474	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R1475	ERJ2GEJ271	M 270 OHM, J,0.063W	1	
R1478	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1479	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1480	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PV60E
R1489	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1490	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PV60E
R1491	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R1526	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1530,31	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R1554,55	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1556	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
R2005	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2006-11	ERJ6GEYJ223	M 22KOHM,J,1/10W	6	
R2012	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2013,14	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2015,16	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2018,19	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R2023	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2027,28	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R2031	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2033	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2035,36	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R2038	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2040	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2042	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R2043	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2044	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2045,46	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2048	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2049,50	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2051,52	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R2053	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2054	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2101,02	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2103	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2113,14	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2116	J0JCC0000241	CHIP INDUCTOR	1	
R2124,25	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R2126,27	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R2128,29	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R2130	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2131	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	
R2132	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2133	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2135,36	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2137	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2138	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2147	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2148,49	ERJ3EKF6342	M6.34KOHM, 1/16W	2	
R2152	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2153	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2154	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2155,56	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2158	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2160	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2161	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R2162	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2163	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R2164	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2165,66	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R2167	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2168,69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R2170-77	ERJ3GEYJ221	M 220 OHM,J,1/16W	8	
R2181	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2182,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R2184-87	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2188	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2190	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2192,93	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2195,96	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R2197	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2199,00	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2202	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2203	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2204	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2208	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2209	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2210	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R2211	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2213	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2214	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2215	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2219	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2220	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R2224,25	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2227	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2230,31	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R2232,33	ERJ3GEYJ153	M 15KOHM,J,1/16W	2	
R2234,35	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2236	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2237	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2238,39	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2246	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R2302	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2303	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2304	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2305	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2306	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R2307	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2310	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(PA)
R2310	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	(H)
R2311	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(PA)
R2311	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	(H)
R2312	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2323,24	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2325	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2329	ERJ3EKF1003	M 100KOHM, 1/16W	1	
R2332	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2338	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2341	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2349	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2354	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2357	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2359	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2360	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2361	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2363	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2364	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2365	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2366	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2368	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2369	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2372,73	ERJ6GEYJ681	M 680 OHM,J,1/10W	2	
R2375	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2376	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2379,80	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R2383	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	
R2384	ERJ3EKF1151	M1.15KOHM, 1/16W	1	
R2387	ERJ3EKF1151	M1.15KOHM, 1/16W	1	
R2388	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	(PA)
R2388,89	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	(H)
R2390	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R2391	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2392	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2393	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2396	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2397	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(H)
R2397	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(PA)
R2398	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	(H)
R2398	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(PA)
R2399	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2400	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2401,02	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2404,05	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2406	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2407	ERJ3EKF1241	M1.24KOHM, 1/16W	1	

R2407	ERJ3EKF1241	MF1.24KOHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2408	ERJ3EKF1071	M1.07KOHM, 1/16W	1	
R2409	ERJ3EKF1621	M1.62KOHM, 1/16W	1	
R2410	ERJ3EKF7870	M 787 OHM, 1/16W	1	
R2421	ERJ3EKF1621	M1.62KOHM, 1/16W	1	
R2422	ERJ3EKF7870	M 787 OHM, 1/16W	1	
R2512	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R2516	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2517	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R2520	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R2521	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R2524	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2539	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	TH-50PX60B
R2540	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	TH-50PX60B
R2542	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2554	ERJ6ENF75R0	M 75 OHM, 1/10W	1	TH-50PX60B
R2557	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2559	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2560	ERJ3EKF5760	M 576 OHM, 1/16W	1	
R2567	ERJ6GEY0R00	M 0 OHM, 1/10W	1	TH-50PX60B
R2572	ERJ6GEY0R00	M 0 OHM, 1/10W	1	TH-50PX60B
R3001,02	ERJ6ENF1500	M 150 OHM, 1/10W	2	
R3003-05	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3006-08	ERJ6ENF1500	M 150 OHM, 1/10W	3	
R3009-15	ERJ6ENF75R0	M 75 OHM, 1/10W	7	
R3016,17	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3018,19	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R3020-22	ERJ6ENF2202	M 2.2KOHM, 1/10W	3	
R3023,24	ERJ6ENF1202	M 12KOHM, 1/10W	2	
R3025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3026	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3027,28	ERJ6ENF1500	M 150 OHM, 1/10W	2	
R3030-32	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3033,34	ERJ6ENF1500	M 150 OHM, 1/10W	2	
R3036	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R3041,42	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	2	
R3043	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3044,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3048	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3049	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3050	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R3051	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3052	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3057,58	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3059-64	ERJ3GEYJ221	M 220 OHM,J,1/16W	6	
R3068	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3070	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3072-75	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R3076	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3077	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3078	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3086-88	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3089,90	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3092	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3094-01	ERJ3GEYJ221	M 220 OHM,J,1/16W	8	
R3102	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3103	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3105	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3107	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3109	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3111-14	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3115	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3118	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3121	ERJ3EKF1300V	M 130 OHM, 1/16W	1	
R3122	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3123	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R3125	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3126	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3127	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3130,31	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R3132,33	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3134	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3136	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3138	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R3139	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3140	ERJ3EKF1300V	M 130 OHM, 1/16W	1	
R3141	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3143	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3144	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3145	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3146	ERJ3GEYJ361	M 360 OHM,J,1/16W	1	
R3149	ERJ3GEYJ361	M 360 OHM,J,1/16W	1	
R3150	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3151	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3152	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3153,54	ERJ3GEYJ361	M 360 OHM,J,1/16W	2	
R3155	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3156	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3157	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3158,59	ERJ3GEYJ361	M 360 OHM,J,1/16W	2	
R3160,61	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3163	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R3206	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3213,14	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3215	J0JCC0000241	CHIP INDUCTOR	1	
R3222	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3224	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3227-29	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3233,34	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R3238	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3239	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R3245-48	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3249	J0JCC0000241	CHIP INDUCTOR	1	
R3250,51	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3302	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3305	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3306,07	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3308,09	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R3310	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3312	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3313	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3317	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3318	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3320	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3323,24	ERJ6GEY0R00	M 0 OHM, 1/10W	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3330	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3336	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3337	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R3338	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3339	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3340	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3341	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3342	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R3343	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3344	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3345	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R3346	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3347	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3348,49	ERJ3GEYJ680	M 68 OHM,J,1/16W	2	
R3350-52	ERJ3GEYJ510	M 51 OHM,J,1/16W	3	
R3704	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3709-11	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3716,17	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3721	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3732	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3733	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3736-41	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R3746	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3748	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3750	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3751	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
R3753	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R3754	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R3755	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3757	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3758	ERJ6ENF6651	M6.65KOHM, 1/10W	1	
R3759-64	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
R3765	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
R3767	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R3768	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R4001	ERJ3EKF1211	M1.21KOHM, 1/16W	1	
R4004	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4008	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4010	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4018	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PV60E
R4019	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4021	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4022	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R4024,25	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4026,27	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R4029	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4031-33	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
R4037-39	D1HG1038A002	NETWORK RESISTER	3	
R4040,41	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4045,46	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4101	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4257	ERJ3EKF3302	M 33KOHM, 1/16W	1	
R4265	ERJ3EKF3242	M32.4KOHM, 1/16W	1	
R4269	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4271,72	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4286,87	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4293	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4338-43	ERJ2GE0R00	M 0.0 OHM, J,0.063W	6	
R4457	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4465	ERJ2GEJ224	M 220KOHM, J,0.063W	1	
R4469,70	ERJ3EKF1500	M 150 OHM, 1/16W	2	
R4472	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R4474	ERJ3EKF1211	M1.21KOHM, 1/16W	1	
R4479,80	ERJ3EKF4220	M 422 OHM, 1/10W	2	
R4481	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4482,83	ERJ3EKF1781	M1.78KOHM, 1/16W	2	
R4486	ERJ3EKF4870	M 487 OHM, 1/16W	1	
R4487	ERJ3EKF5600	M 560 OHM, 1/16W	1	
R4488	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4490	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4492	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4495	ERJ3EKF4302	M 43KOHM, 1/16W	1	
R4496-99	ERJ6GEYJ102	M 1KOHM,J,1/10W	4	
R4500	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	
R4501,02	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4503	ERJ3EKF1600	M 160 OHM, 1/16W	1	
R4505	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4506	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4508	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4510	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4517	ERJ3EKF1371	M 13.7 OHM, 1/16W	1	
R4520	ERJ3EKF1691	M1.69KOHM, 1/16W	1	
R4521,22	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4527	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4533	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4534,35	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R4544	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4550	EXB28V220J	RESISTOR ARRAY	1	
R4552	EXB28V220J	RESISTOR ARRAY	1	
R4554	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4555	EXB28V220J	RESISTOR ARRAY	1	
R4560,61	EXB28V220J	RESISTOR ARRAY	2	
R4563-65	ERJ2GEJ220	M 22 OHM, J,0.063W	3	
R4568	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4572	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4575	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4577-79	ERJ2GEJ222	M 2.2KOHM, J,0.063W	3	
R4583,84	ERJ2GEJ390	M 39 OHM, J,0.063W	2	
R4589-04	ERJ2GEJ2R7X	M 2.7OHM, J,0.063W	16	
R4605,06	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4607	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4609,10	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4612,13	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R4617,18	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R4619	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R4620	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4621	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R4622	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4624	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4626	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4628	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4629-32	ERJ2GEJ472	M 4.7KOHM, J,0.063W	4	
R4633,34	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4636	ERJ2GEJ103	M 10KOHM, J,0.063W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4637	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4639	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4640	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4641	EXB28V330J	RESISTOR ARRAY	1	
R4642-45	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R4647	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4648	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4655	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4657	ERJ2GEJ182	M 1.8KOHM, J,0.063W	1	
R4658	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4660	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4661	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4662	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4665	EXB2HV220JV	RESISTOR ARRAY	1	
R4667	EXB2HV220JV	RESISTOR ARRAY	1	
R4668	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R4669	EXB2HV220JV	RESISTOR ARRAY	1	
R4672,73	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4675	ERJ3EKF1802	M 18KOHM, 1/16W	1	
R4677	ERJ3EKF1802	M 18KOHM, 1/16W	1	
R4679,80	ERJ3EKF2202	M 22KOHM, 1/16W	2	
R4681,82	ERJ3EKF3302	M 33KOHM, 1/16W	2	
R4701	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R4706	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4708,09	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
R4710	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4711	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4712	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4713,14	EXB2HV221JV	RESISTOR ARRAY	2	
R4715	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4718-20	ERJ2GEJ680	M 68 OHM, J,0.063W	3	
R4727	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4729,30	ERJ3EKF1000	M 100 OHM, 1/16W	2	
R4731	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R4732	ERJ3EKF4751	M 4.75KOHM, 1/16W	1	
R4733	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R4734	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R4735	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R4737	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4738,39	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	
R4743-47	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
R4749,50	EXB2HV680J	RESISTOR ARRAY	2	
R4751-54	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R4756-60	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
R4762	EXB2HV680J	RESISTOR ARRAY	1	
R4763-65	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
R4772	EXB2HV470JV	RESISTOR ARRAY	1	
R4773	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4774	EXB2HV470JV	RESISTOR ARRAY	1	
R4775	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4776	EXB2HV470JV	RESISTOR ARRAY	1	
R4777	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4778	EXB2HV470JV	RESISTOR ARRAY	1	
R4779	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4782	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4783	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4784	ERJ2GEJ220	M 22 OHM, J,0.063W	1	

R4704	ERJ2GEJ220	M 22 OHM, 5,0.063W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4785	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4788	EXB2HV470JV	RESISTOR ARRAY	1	
R4791,92	ERJ2GEJ470	M 47 OHM, J,0.063W	2	
R4793,94	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4796	EXB2HV470JV	RESISTOR ARRAY	1	
R4804	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4805,06	ERJ3EKF1001	M 1KOHM, 1/16W	2	
R4807-11	ERJ2GE0R00	M 0.0 OHM, J,0.063W	5	
R4814	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4816,17	ERJ2GEJ223	M 22KOHM, J,0.063W	2	
R4819	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R4822	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4823-25	J0JAD0000025	CHIP INDUCTOR	3	
R4826,27	EXB2HVR000	RESISTOR ARRAY	2	TH-50PX60B
R4830,31	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
R4837	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4838	ERJ2GEJ112	M 1.1KOHM, J,0.063W	1	
R4840	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R4891	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4898	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4960	EXB2HV680J	RESISTOR ARRAY	1	
R4961-63	ERJ2GEJ680	M 68 OHM, J,0.063W	3	
R4964	EXB2HV680J	RESISTOR ARRAY	1	
R4965,66	ERJ2GEJ680	M 68 OHM, J,0.063W	2	
R4967	EXB2HV680J	RESISTOR ARRAY	1	
R4968-72	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
R5601	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R5603	ERJ3EKF1542	M15.4KOHM, 1/16W	1	
R5605	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5606	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5607	ERJ3EKF4531	M4.53KOHM, 1/16W	1	
R5609	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R5611	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R5612	ERJ6ENF1602	M 16KOHM, 1/10W	1	
R5615	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5617	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5619	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R5620	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5621	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5625-27	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R5632	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5633	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5634	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5635	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5637,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5639	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5640	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5641	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5642	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5643	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5644	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5645	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R5646	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R5647	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5648	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R5649	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R5650	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5652	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5653,54	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5659	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R5660	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5662	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5664	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5665	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5667-69	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R5672	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5676	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5692	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5693	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R5694	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5695	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5801	ERJ3EKF8450	M 845 OHM, 1/16W	1	
R5802	ERJ3EKF1302	M 23KOHM, 1/16W	1	
R5803	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R5804	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5805-08	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R5809	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5822-24	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R5826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R5836	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6001-06	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6020	ERG3FJS101D	M 100 OHM, J, 3W	1	
R6021	ERJ14YJ150U	M 15 OHM, J,1/4W	1	
R6022	ERG3FJS101D	M 100 OHM, J, 3W	1	
R6023-27	ERJ14YJ150U	M 15 OHM, J,1/4W	5	
R6031,32	ERJ6ENF8202	M 82KOHM, 1/10W	2	
R6033	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6034	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6041-46	ERJ14YJ100	M 10 OHM, J,1/4W	6	
R6053-56	ERJ14YJ100	M 10 OHM, J,1/4W	4	
R6061,62	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6102	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6104	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6106	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6108	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6109	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6110	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6111,12	D0GD470JA036	M 47 OHM,J,0.25W	2	
R6113	ERJ14YJ224	M 220KOHM, J,1/4W	1	
R6114	D0GD470JA036	M 47 OHM,J,0.25W	1	
R6116	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6131,32	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6133,34	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6135,36	D0GD100JA036	M 10 OHM,J,0.25W	2	
R6141,42	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6146,47	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6151,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6153,54	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6155,56	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6157-60	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	4	
R6171	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6172,73	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6181	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6182,83	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	

[illegible]	[illegible]	[illegible]	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6191-94	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6195	D0GD104JA036	M 100KOHM,J,0.25W	1	
R6196	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6213	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6214	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6220	ERDS2TC0	C 0 OHM, 1/4W	1	
R6222	ERG1FJS103D	M 10KOHM, J, 1W	1	
R6223	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6225	D0GD203JA036	M 20KOHM,J,0.25W	1	
R6226,27	ERJ6GEYJ163	M 16KOHM,J,1/10W	2	
R6228	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6229	ERJ6GEYJ163	M 16KOHM,J,1/10W	1	
R6230	ERDS2TC0	C 0 OHM, 1/4W	1	
R6231	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6232	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6241	EXB38V470J	RESISTOR ARRAY	1	
R6242	EXB38V472J	RESISTOR ARRAY	1	
R6243	EXB38V470J	RESISTOR ARRAY	1	
R6244	EXB38V472J	RESISTOR ARRAY	1	
R6251	D0GD103JA036	M 10KOHM,J,0.25W	1	
R6252,53	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6254	ERJ6ENF6801	M 6.8KOHM, 1/10W	1	
R6255	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6256	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R6257	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6258	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6261	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6401-06	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6421-26	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6441-46	ERJ14YJ100	M 10 OHM, J,1/4W	6	
R6453-56	ERJ14YJ100	M 10 OHM, J,1/4W	4	
R6465	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6466	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6467,68	ERJ6ENF8202	M 82KOHM, 1/10W	2	
R6471	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6472	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6473	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R6474	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6475,76	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6477	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6478	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6501,02	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6503	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6504,05	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6506	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6507-09	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	3	
R6511,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6516,17	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6521,22	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6523,24	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6525,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6531	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6532,33	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6551	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6552,53	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6561-64	EXB38V470J	RESISTOR ARRAY	4	

[illegible]	[illegible]	RESISTOR ARRAY	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6565-68	EXB38V472J	RESISTOR ARRAY	4	
R6581	D0GD103JA036	M 10KOHM,J,0.25W	1	
R6582,83	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6584	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R6585	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6586	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R6587	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6588	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6591	EXB38V472J	RESISTOR ARRAY	1	
R6592	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6603	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6604	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6605	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6606	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6607	ERJ6ENF5361	M5.36KOHM, 1/10W	1	
R6608,09	D0GF102JA047	M 1.0 KOHM,J,0.33W	2	
R6610	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6611	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6612	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6613	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6614,15	D0GF243JA047	M 24 KOHM,J,0.33W	2	
R6616	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R6617	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6618	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R6619	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R6620	D0D28R2JA021	M 8.2 OHM,J,5W	1	
R6621,22	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R6641-45	ERJ6GEYJ100	M 10 OHM,J,1/10W	5	
R6647,48	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6658	D0D1101JA009	M 100 OHM,J,1W	1	
R6659,60	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6661	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6662	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R6663	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6664	D0GF222JA047	M 2.2 KOHM,J,0.33W	1	
R6665	ERJ14YJ470	M 47 OHM,J, 1/2W	1	
R6666	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6667,68	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6671	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6672	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6673-75	D0GD5R6JA059	M 5.6 OHM,J,0.25W	3	
R6682	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6683	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6684	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6685	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6686	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6687	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6688	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6689	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6690	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6691	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6696,97	D0D32R2JA020	M 2.2 OHM,J,5W	2	
R6700-08	ERJ6GEYJ471	M 470 OHM,J,1/10W	9	
R6710-18	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6721,22	EXB38V220J	RESISTOR ARRAY	2	
R6723	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	

R0725	ERJ3GEYJ222	M 2.2KOHM,5%,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6724	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6742	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6743	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6744	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6745	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6746,47	D0GD103JA036	M 10KOHM,J,0.25W	2	
R6755	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6756-58	D0GD101JA059	M 100 OHM,J,0.25W	3	
R6759	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6760	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6761	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6762	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6775,76	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6777	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6781	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6791	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6792	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6793	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6801	ERX3FJS8R2D	M 8.2 OHM, J, 3W	1	
R6802	ERG2FJS683D	M 68KOHM, J, 2W	1	
R6803	ERG2FJS563D	M 56KOHM, J, 2W	1	
R6806,07	ERX12SJ1R2	M 1.2 OHM, J,1/2W	2	
R6808	D0GD272JA059	M 2.7KOHM,J,0.25W	1	
R6809	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6810,11	ERJ6GEYJ433	M 43KOHM,J,1/10W	2	
R6812	ERJ6ENF2403	M 240KOHM, 1/10W	1	
R6813	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R6814	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R6816	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R6817	ERJ6ENF1302	M 13KOHM, 1/10W	1	
R6819	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R6820	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6821	ERG2FJS221D	M 220 OHM, J, 2W	1	
R6822	ERJ12YJ104U	M 100KOHM, 1/2W	1	
R6823	ERG1FJS104D	M 100KOHM, J, 1W	1	
R6824	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6825,26	ERJ6ENF2703	M 270KOHM, 1/10W	2	
R6827	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6828	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R6829,30	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6831	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R6832	ERDS1FJ4R7	C 4.7 OHM, J,1/2W	1	
R6833-36	ERJ6ENF5602	M 56KOHM, 1/10W	4	
R6837	ERJ6ENF5102	M 51KOHM, 1/10W	1	
R6839	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6841	ERJ12YJ153U	M 15KOHM, 1/2W	1	
R6842	ERJ14YJ433U	M 43KOHM, 1/2W	1	
R6843	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
R6844	D0D2101JA021	M 100 OHM,J,2W	1	
R6845	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
R6846,47	ERJ6GEYJ563	M 56KOHM,J,1/10W	2	
R6848	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6849,50	ERJ6ENF6802	M 68KOHM, 1/10W	2	
R6851	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6852	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R6853	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6858	D0GD102JA059	M 1.0KOHM,J,0.25W	1	
R6860	D0D28R2JA021	M 8.2 OHM,J,5W	1	
R6861	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R6862,63	ERJ6ENF4702	M 47KOHM, 1/10W	2	
R6864	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R6865,66	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R6867	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6868	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6869	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6871-73	ERJ6ENF3902	M 39KOHM, 1/10W	3	
R6874	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R6875	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R6876	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6877	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6878	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6879	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6886-88	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6891	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6901	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6902-04	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R6905	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6909	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6913	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6917	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6924	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6931-34	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6935,36	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
R6951	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6955	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6959	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6963	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6967	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6971	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6972-74	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R6981-84	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6985,86	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
R7103-06	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7108	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7110	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7113-16	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7118	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7120	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7123-26	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7128	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7130	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7131	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7132	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7133	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7134	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7135	EXB38V471J	RESISTOR ARRAY	1	
R7136-39	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7140-42	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7201	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7203-05	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	3	
R7207	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7209,10	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7211-13	EXB38V471J	RESISTOR ARRAY	3	

[illegible]	[illegible]	RESISTOR ARRAY	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7215,16	EXB38V470J	RESISTOR ARRAY	2	
R7221-25	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	5	
R7228,29	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7234,35	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	2	
R7238,39	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	2	
R7240	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7241-44	EXB38V471J	RESISTOR ARRAY	4	
R7245	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7246-49	EXB38V471J	RESISTOR ARRAY	4	
R7250-53	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7254	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7256	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7257-60	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7261-63	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7264-71	EXB38V470J	RESISTOR ARRAY	8	
R7274-79	EXB38V471J	RESISTOR ARRAY	6	
R7280-85	EXB38V470J	RESISTOR ARRAY	6	
R7301-08	EXB38V470J	RESISTOR ARRAY	8	
R7309	EXB38V471J	RESISTOR ARRAY	1	
R7326-29	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7330,31	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7332	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7333,34	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7335,36	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7337-44	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	8	
R7345-48	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7349-56	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	8	
R7357,58	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7359	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7360	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7361	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7362-69	EXB38V471J	RESISTOR ARRAY	8	
R7403-06	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7408	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7410	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7413-16	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7418	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7420	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7423-26	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7428	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7430	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7433-36	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7438	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7440	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7441-44	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7445	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7446-49	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7450-57	EXB38V470J	RESISTOR ARRAY	8	
R7459	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7460	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7461	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7462-70	EXB38V681J	RESISTOR ARRAY	9	
R7501,02	EXB38V681J	RESISTOR ARRAY	2	
R7503	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7504,05	EXB38V470J	RESISTOR ARRAY	2	
R7510-13	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7514	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7515	EXB38V681J	RESISTOR ARRAY	1	
R7516-19	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7520	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7521-24	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7525	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7526-33	EXB38V681J	RESISTOR ARRAY	8	
R7535	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7537	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7538	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7541-43	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7544-46	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7547-54	EXB38V470J	RESISTOR ARRAY	8	
R7555	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7556-59	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7560	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7575	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7577	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7580-85	EXB38V681J	RESISTOR ARRAY	6	
R7586-91	EXB38V470J	RESISTOR ARRAY	6	
R7603-06	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7608	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7610	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7613-16	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7618	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7620	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7623-26	ERJ12YJ6R8U	M 6.8 OHM, J,1/2W	4	
R7628	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7630	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7631	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R7632	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7633	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7634	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7635-38	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7639-41	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7642	EXB38V681J	RESISTOR ARRAY	1	
R8001	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8002	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	TH-50PX60B
R8003,04	ERJ2GEJ181	M 180 OHM, J,0.063W	2	TH-50PX60B
R8006	ERJ8GEY0R00	M 0 OHM, 1/8W	1	TH-50PX60B
R8008	ERJ2GEJ102	M 1KOHM, J,0.063W	1	TH-50PX60B
R8010-12	ERJ2GEJ103	M 10KOHM, J,0.063W	3	TH-50PX60B
R8014,15	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8017,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	TH-50PX60B
R8021,22	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8027	D1HG5608A002	NETWORK RESISTER	1	TH-50PX60B
R8028-30	ERJ2GEJ560	M 56 OHM, J,0.063W	3	TH-50PX60B
R8033	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	TH-50PX60B
R8034,35	ERJ3GEY0R00	M 0 OHM, 1/16W	2	TH-50PX60B
R8036	ERJ3GEYJ163	M 16KOHM,J,1/16W	1	TH-50PX60B
R8038	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8039,40	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	TH-50PX60B
R8041	ERJ2GEJ154	M 150KOHM, J,0.063W	1	TH-50PX60B
R8046	ERJ2GEJ330	M 33 OHM, J,0.063W	1	TH-50PX60B
R8047-50	ERJ2GEJ101	M 100 OHM, J,0.063W	4	TH-50PX60B
R8051	EXB38V330J	RESISTOR ARRAY	1	TH-50PX60B
R8052-55	ERJ2GEJ103	M 10KOHM, J,0.063W	4	TH-50PX60B

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8056	ERJ2GEJ330	M 33 OHM, J,0.063W	1	TH-50PX60B
R8057	ERJ2GEJ680	M 68 OHM, J,0.063W	1	TH-50PX60B
R8058	EXB38V330J	RESISTOR ARRAY	1	TH-50PX60B
R8059	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8073	ERJ2GEJ105	M 1MOHM, J,0.063W	1	TH-50PX60B
R8074,75	ERJ2GEJ181	M 180 OHM, J,0.063W	2	TH-50PX60B
R8076	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8078	ERJ2GEJ562	M 5.6KOHM,J,0.063W	1	TH-50PX60B
R8079	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PX60B
R8084,85	D1HG1218A002	NETWORK RESISTER	2	TH-50PX60B
R8086-88	ERJ2GEJ560	M 56 OHM, J,0.063W	3	TH-50PX60B
R8101	ERJ3GEYF181	M 180 OHM,J,1/16W	1	TH-50PX60B PAVCCZ
R8104	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8106,07	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8108	ERJ3EKF1002	M 10KOHM, 1/16W	1	TH-50PX60B
R8109	ERJ3EKF2202	M 22KOHM, 1/16W	1	TH-50PX60B
R8110	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	TH-50PX60B
R8111	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8112,13	ERJ3GEY0R00	M 0 OHM, 1/16W	2	TH-50PX60B
R8115	ERJ3GEYF272	M 2.7KOHM, 1/16W	1	TH-50PX60B
R8117	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	TH-50PX60B
R8123	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-50PX60B
R8124	ERJ2GEJ471	M 470 OHM, J,0.063W	1	TH-50PX60B
R8127	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8132,33	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8136	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8137	ERJ2GEJ121	M 120 OHM, J,0.063W	1	TH-50PX60B
R8140,41	ERJ3EKF1001	M 1KOHM, 1/16W	2	TH-50PX60B
R8144,45	D1HG5608A002	NETWORK RESISTER	2	TH-50PX60B
R8148,49	D1HG3908A002	NETWORK RESISTER	2	TH-50PX60B
R8150-59	ERJ2GEJ390	M 39 OHM, J,0.063W	10	TH-50PX60B
R8161,62	ERJ2GEJ390	M 39 OHM, J,0.063W	2	TH-50PX60B
R8163	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8165	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8167-71	ERJ2GEJ103	M 10KOHM, J,0.063W	5	TH-50PX60B
R8172	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PX60B
R8173	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8175,76	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8183	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8184	ERJ2GEJ223	M 22KOHM, J,0.063W	1	TH-50PX60B
R8187	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8188	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-50PX60B
R8193	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8195,96	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8201-04	ERJ2GEJ103	M 10KOHM, J,0.063W	4	TH-50PX60B
R8215	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8216,17	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8218,19	D1HG33080001	NETWORK RESISTER	2	TH-50PX60B
R8220-22	D1HG5608A002	NETWORK RESISTER	3	TH-50PX60B
R8223	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8224,25	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8226	ERJ2GEJ330	M 33 OHM, J,0.063W	1	TH-50PX60B
R8232-43	ERJ2GEJ330	M 33 OHM, J,0.063W	12	TH-50PX60B
R8244	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8245,46	ERJ2GEJ330	M 33 OHM, J,0.063W	2	TH-50PX60B
R8250	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8252-54	ERJ2GEJ330	M 33 OHM, J,0.063W	3	TH-50PX60B

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8255	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8256	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	TH-50PX60B
R8257	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8259	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8260-63	ERJ2GEJ560	M 56 OHM, J,0.063W	4	TH-50PX60B
R8264-68	ERJ2GEJ103	M 10KOHM, J,0.063W	5	TH-50PX60B
R8269	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8271	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8272	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8273	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8275	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8277	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8279	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8282	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8284	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8286,87	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8290	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8291,92	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8310-15	ERJ3EKF75R0	M 0.75HM, 1/16W	6	TH-50PX60B
R8319	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	TH-50PX60B
R8320	ERJ3EKF1002	M 10KOHM, 1/16W	1	TH-50PX60B
R8321	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	TH-50PX60B
R8349	ERJ2GEJ104	M 100KOHM, J,0.063W	1	TH-50PX60B
R8350	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	TH-50PX60B
R8351	ERJ3EKF1002	M 10KOHM, 1/16W	1	TH-50PX60B
R8352	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	TH-50PX60B
R8353	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	TH-50PX60B
R8354	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	TH-50PX60B
R8355,56	EXB2HV104JV	RESISTOR ARRAY	2	TH-50PX60B
R8357,58	ERJ2GEJ473	M 47KOHM,J,0.063W	2	TH-50PX60B
R8366	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8367,68	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8372-76	ERJ2GEJ560	M 56 OHM, J,0.063W	5	TH-50PX60B
R8401	ERJ8GEY0R00	M 0 OHM, 1/8W	1	TH-50PX60B
R8402	ERJ6GEY0R00	M 0 OHM, 1/10W	1	TH-50PX60B
R8403	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8404,05	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8406	ERJ8RSJR10	M 1 OHM, 1/8W	1	TH-50PX60B
R8407	ERJ2GEJ333	M 33KOHM, J,0.063W	1	TH-50PX60B
R8414	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8415,16	ERJ2GEJ223	M 22KOHM, J,0.063W	2	TH-50PX60B
R8417,18	EXB38V473J	RESISTOR ARRAY	2	TH-50PX60B
R8419,20	EXB38V101J	RESISTOR ARRAY	2	TH-50PX60B
R8421	ERJ2GEJ223	M 22KOHM, J,0.063W	1	TH-50PX60B
R8422	ERJ2GEJ104	M 100KOHM, J,0.063W	1	TH-50PX60B
R8423	ERJ2GEJ821	M 820 OHM, J,0.063W	1	TH-50PX60B
R8425,26	EXB38V101J	RESISTOR ARRAY	2	TH-50PX60B
R8427-31	ERJ2GEJ560	M 56 OHM, J,0.063W	5	TH-50PX60B
R8433,34	EXB38V560J	RESISTOR ARRAY	2	TH-50PX60B
R8443	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8444	ERJ2GEJ101	M 100 OHM, J,0.063W	1	TH-50PX60B
R8445,46	ERJ2GEJ151	M 150 OHM, J,0.063W	2	TH-50PX60B
R8447	ERJ2GEJ223	M 22KOHM, J,0.063W	1	TH-50PX60B
R8448	ERJ2GEJ473	M 47KOHM,J,0.063W	1	TH-50PX60B
R8449,50	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8451	EXB38V104J	RESISTOR ARRAY	1	TH-50PX60B
R8452	ERJ2GEJ104	M 100KOHM, J,0.063W	1	TH-50PX60B

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8453	EXB38V104J	RESISTOR ARRAY	1	TH-50PX60B
R8454	ERJ2GEJ104	M 100KOHM, J,0.063W	1	TH-50PX60B
R8456-59	EXB38V560J	RESISTOR ARRAY	4	TH-50PX60B
R8460	ERJ2GEJ104	M 100KOHM, J,0.063W	1	TH-50PX60B
R8461	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8462,63	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
R8464	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8465	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8466	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8467,68	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8469	EXB38V151J	RESISTOR ARRAY	1	TH-50PX60B
R8474	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8475,76	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8477,78	ERJ2GEJ560	M 56 OHM, J,0.063W	2	TH-50PX60B
R8479	ERJ2GEJ203	M 20KOHM,J,0.063W	1	TH-50PX60B
R8480-82	ERJ2GEJ560	M 56 OHM, J,0.063W	3	TH-50PX60B
R8483	ERJ2GEJ203	M 20KOHM,J,0.063W	1	TH-50PX60B
R8484	ERJ2GEJ223	M 22KOHM, J,0.063W	1	TH-50PX60B
R8485	ERJ2GEJ333	M 33KOHM, J,0.063W	1	TH-50PX60B
R8486	ERJ2GEJ223	M 22KOHM, J,0.063W	1	TH-50PX60B
R8487	ERJ2GEJ560	M 56 OHM, J,0.063W	1	TH-50PX60B
R8488	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8489	ERJ2GEJ102	M 1KOHM, J,0.063W	1	TH-50PX60B
R8491	ERJ3EKF9102	M91.0KOHM, 1/16W	1	TH-50PX60B
R8492	ERJ3EKF1802	M 18KOHM, 1/16W	1	TH-50PX60B
R8493	ERJ3EKF9102	M91.0KOHM, 1/16W	1	TH-50PX60B
R8494	ERJ3EKF9101	M 9.1KOHM, 1/16W	1	TH-50PX60B
R8495	EXB38V151J	RESISTOR ARRAY	1	TH-50PX60B
R8496	EXB38V560J	RESISTOR ARRAY	1	TH-50PX60B
R8497	ERJ3EKF3300	M 330 OHM, 1/16W	1	TH-50PX60B
R8498	ERJ3EKF2200	M 220 OHM, 1/16W	1	TH-50PX60B
R8499	ERJ3EKF2432	M24.3KOHM, 1/16W	1	TH-50PX60B
R8500	ERJ3EKF1052	M10.5KOHM, 1/16W	1	TH-50PX60B
R8501	ERJ3EKF5601	M 5.6KOHM, 1/16W	1	TH-50PX60B
R8502	ERJ3EKF2402	M 24KOHM, 1/16W	1	TH-50PX60B
R8503,04	ERJ2GEJ103	M 10KOHM, J,0.063W	2	TH-50PX60B
R8505	ERJ2GEJ101	M 100 OHM, J,0.063W	1	TH-50PX60B
R8538,39	ERJ2GEJ101	M 100 OHM, J,0.063W	2	TH-50PX60B
R8546	ERJ2GEJ333	M 33KOHM, J,0.063W	1	TH-50PX60B
R8547	ERJ2GEJ102	M 1KOHM, J,0.063W	1	TH-50PX60B
R8601	ERJ3GEY0R00	M 0 OHM, 1/16W	1	TH-50PX60B
R8602-04	ERJ2GEJ101	M 100 OHM, J,0.063W	3	TH-50PX60B
R8605,06	ERJ2GEJ104	M 100KOHM, J,0.063W	2	TH-50PX60B
R8608	ERJ2GEJ105	M 1MOHM, J,0.063W	1	TH-50PX60B
R8610	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	TH-50PX60B
R8611	ERJ6GEY0R00	M 0 OHM, 1/10W	1	TH-50PX60B
R8614	ERJ2GEJ221	M 220 OHM, J,0.063W	1	TH-50PX60B
R8615	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8701-08	ERJ2GEJ560	M 56 OHM, J,0.063W	8	TH-50PX60B
R8729-36	ERJ2GEJ103	M 10KOHM, J,0.063W	8	TH-50PX60B
R8827,28	ERJ2GEJ392	M 3.9KOHM, J,0.063W	2	TH-50PX60B
R8831,32	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
R8862-64	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	TH-50PX60B
R8899,00	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
R8912	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8927	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8930	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8931,32	ERJ2GEJ392	M 3.9KOHM, J,0.063W	2	TH-50PX60B
R8933,34	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	TH-50PX60B
R8936	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8954	ERJ2GEJ103	M 10KOHM, J,0.063W	1	TH-50PX60B
R8960	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	TH-50PX60B
R8962-64	ERJ2GEJ101	M 100 OHM, J,0.063W	3	TH-50PX60B
R8967,68	EXB2HV473JV	RESISTOR ARRAY	2	TH-50PX60B PAVCCZ
R8969-71	ERJ2GEJ473	M 47KOHM,J,0.063W	3	TH-50PX60B
R9060-67	ERJ3GEYJ101	M 100 OHM,J,1/16W	8	
R9070	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9074	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9076	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9095	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9097	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9099	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9100,01	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9102	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9107	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9108,09	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9110	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9111	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9113	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9120	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9121	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9127	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9129	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R9134	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R9140	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9141-45	ERJ3GEYJ101	M 100 OHM,J,1/16W	5	
R9148	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9150,51	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9152,53	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9154,55	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9156-59	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9160,61	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9164-66	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9167,68	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9169	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9170-72	ERJ3GEYJ393	M 39KOHM,J,1/16W	3	
R9173-75	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9177	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9178	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9179	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9180	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9181-84	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R9185,86	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9187,88	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9189,90	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9192	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9193	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9194	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9196	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9198	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9199	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9201,02	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9203	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9204,05	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9206,07	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9209	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9210	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9215	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R9217-22	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R9236	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9237	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9244,45	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9247,48	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9300,01	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9302,03	D1HG8208A002	NETWORK RESISTER	2	
R9304,05	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9306,07	EXB38V820J	RESISTOR ARRAY	2	
R9308	D1HG8208A002	NETWORK RESISTER	1	
R9309,10	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9311,12	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9313,14	D1HG8208A002	NETWORK RESISTER	2	
R9315,16	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9319	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9320	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9367	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R9371	EXB2HV470JV	RESISTOR ARRAY	1	
R9372	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9373	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9374	EXB38V470J	RESISTOR ARRAY	1	
R9375	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9389-91	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9393-95	D1HG8208A002	NETWORK RESISTER	3	
R9396,97	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9398	EXB38V820J	RESISTOR ARRAY	1	
R9404	EXB2HV470JV	RESISTOR ARRAY	1	
R9412-21	EXB38V470J	RESISTOR ARRAY	10	
R9428	EXB38V103J	RESISTOR ARRAY	1	
R9430	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9433	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9437,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9440	EXB2HV470JV	RESISTOR ARRAY	1	
R9441	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9442	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9443	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9444	D1HG8208A002	NETWORK RESISTER	1	
R9445	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9446	EXB38V820J	RESISTOR ARRAY	1	
R9448	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9449,50	D1HG8208A002	NETWORK RESISTER	2	
R9451,52	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9453-57	D1HG8208A002	NETWORK RESISTER	5	
R9458,59	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9460,61	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9462,63	EXB38V820J	RESISTOR ARRAY	2	
R9464,65	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9466,67	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9468	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9469	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9470	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9471	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9472	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9475	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9480	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9482-85	ERJ3EKF1001	M 1KOHM, 1/16W	4	
R9486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9487	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9488	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9489-95	ERJ3GEYJ470	M 47 OHM,J,1/16W	7	
R9496	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9497	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9498	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9506	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9507	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9512	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9514	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9515	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9523	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9525	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9526	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9527,28	EXB2HV272JV	RESISTOR ARRAY	2	
R9529,30	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9531-33	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9534	EXB38V470J	RESISTOR ARRAY	1	
R9535,36	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9537	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9539	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9542	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	
R9543,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9545	ERJ3GEYJ304V	M 300KOHM,J,1/16W	1	
R9546	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9548-50	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9552-54	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9556	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9560	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9574	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9578	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9580-83	ERJ3EKF1001	M 1KOHM, 1/16W	4	
R9584	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9585,86	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9587-95	EXB38V470J	RESISTOR ARRAY	9	
R9596-99	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R9602	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9616	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9619,20	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9622	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9624,25	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9628	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9630	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9631	EXB2HV272JV	RESISTOR ARRAY	1	
R9632-34	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9637	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9639	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9641	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9800	ERJ3EKF1302	M 23KOHM, 1/16W	1	
R9801	ERJ3EKF2402	M 24KOHM, 1/16W	1	
R9802	ERJ3EKF6202	M 62KOHM, 1/16W	1	
R9803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9804	ERJ3EKF2402	M 24KOHM, 1/16W	1	
R9805	ERJ3EKF3002	M 30KOHM, 1/16W	1	
R9806	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R9807	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9808	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9810	ERJ3EKF3001	M 3KOHM, 1/16W	1	
R9813	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R9814	ERJ3EKF6802	M 68KOHM, 1/16W	1	
R9815	ERJ3EKF2202	M 22KOHM, 1/16W	1	
R9816	ERJ3EKF8202	M 82KOHM, 1/16W	1	
R9821	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9823-28	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	
R9830,31	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9838,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9840	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9841	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9842-44	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R9845	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9846,47	EXB2HV272JV	RESISTOR ARRAY	2	
R9848,49	EXB2HV470JV	RESISTOR ARRAY	2	
R9850	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9854	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9859	EXB38V101J	RESISTOR ARRAY	1	
R9868	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9869-71	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9875-77	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9878	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R9879	ERJ3EKF2002	M 20KOHM, 1/16W	1	
R9880	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R9883	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9884	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9891	ERJ3EKF4702	M 47KOHM, 1/16W	1	
R9892	ERJ3EKF1502	M 15KOHM, 1/16W	1	
R9893	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R9896	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9897	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
RM2501	PNA4701M05TV	REMOCO RECEIVER	1	
RTL	TNPA3740AB	CIRCUIT BOARD XV	1	TH-50PX60B PAVCCZ
RTL	TNPA3756CB	CIRCUIT BOARD DG	1	TH-50PV60E PAVCCZ
RTL	TNPA3756CH	CIRCUIT BOARD DG	1	TH-50PX60B PAVCCZ
RTL	TNPA3759AD	CIRCUIT BOARD H	1	PAVCCZ
RTL	TNPA3766	CIRCUIT BOARD HC	1	PAVCCZ
RTL	TNPA3767	CIRCUIT BOARD TA	1	TH-50PV60E PAVCCZ
RTL	TNPA3767AB	CIRCUIT BOARD TA	1	TH-50PX60B PAVCCZ
RTL	TXNPA1BJTB	CIRCUIT BOARD PA	1	PAVCCZ
RTL	ETXMM610MEF	CIRCUIT BOARD P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TXNC11BETB	CIRCUIT BOARD C1	1	PAVCCZ
RTL	TXNC21BETB	CIRCUIT BOARD C2	1	PAVCCZ
RTL	TXNC31BETB	CIRCUIT BOARD C3	1	PAVCCZ
RTL	TXNC41BETB	CIRCUIT BOARD C4	1	PAVCCZ
RTL	TXNC51BETB	CIRCUIT BOARD C5	1	PAVCCZ
RTL	TXNC61BETB	CIRCUIT BOARD C6	1	PAVCCZ
RTL	TZTNP01BETB	CIRCUIT BOARD D	1	
RTL	TXNSC1BETB	CIRCUIT BOARD SC	1	PAVCCZ
RTL	TXNSD1BETB	CIRCUIT BOARD SD	1	PAVCCZ
RTL	TXNSS21BETB	CIRCUIT BOARD SS2	1	PAVCCZ
RTL	TXNSS1BETB	CIRCUIT BOARD SS	1	PAVCCZ
RTL	TXNSS31BETB	CIRCUIT BOARD SS3	1	PAVCCZ
RTL	TXNSU1BETB	CIRCUIT BOARD SU	1	PAVCCZ
RTL	TXN/G1BJTB	CIRCUIT BOARD G	1	PAVCCZ
RTL	TXNGK1BJTB	CIRCUIT BOARD GK	1	PAVCCZ
RTL	TXN/K1BJTB	CIRCUIT BOARD K	1	TH-50PX60B PAVCCZ
RTL	TXN/K1BJTE	CIRCUIT BOARD K	1	TH-50PV60E PAVCCZ
RTL	TXN/S1BJTB	CIRCUIT BOARD S	1	PAVCCZ
S1	K1KA03BA0061	3P CONNECTOR	1	
SC2	K1KA02A00626	2P CONNECTOR	1	
SC20	K1KA20AA0008	20P CONNECTOR	1	
SC23	K1KA03AA0193	3P CONNECTOR	1	
SC30	K1KA08AA0192	8P CONNECTOR	1	
SC41,42	K1ML80B00001	80P CONNECTOR	2	
SC45,46	K1KA09A00239	9P CONNECTOR	2	
SCMM2,M3	TMME260	CLAMPER	2	
SD1-D4	K1MN96B00006	96P CONNECTOR	4	
SD46	K1KB09A00045	9P CONNECTOR	1	
SS11	K1KA02A00626	2P CONNECTOR	1	
SS12	K1KA10AA0194	10P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22,23	K1KB07AA0087	7P CONNECTOR	2	
SS33	K1KA04AA0193	4P CONNECTOR	1	
SS34	K1KA03AA0193	3P CONNECTOR	1	
SS43	K1KA12AA0194	12P CONNECTOR	1	
SS44	K1KA04AA0193	4P CONNECTOR	1	
SS51-56	K1MN13B00020	13P CONNECTOR	6	
SU1-U4	K1MN96B00006	96P CONNECTOR	4	
SU45	K1KB09A00045	9P CONNECTOR	1	
SW2500	K0F162B00002	SWITCH	1	
SW3753-57	EVQ11G05R	SWITCH	5	
T6602	ETS25AZ149AD	TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TA5	K1KB15B00013	15P CONNECTOR	1	
TA6	K1KB09B00019	9P CONNECTOR	1	
TU001	ENG37A12GF	TUNER	1	TH-50PV60E
TU001	ENGF7301GF	TUNER	1	TH-50PX60B PAVCCZ
TU8001	ENV57M01D8F	TUNER	1	TH-50PX60B PAVCCZ
VR6000	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6600	EVMEASA00B13	CONTROL 1KOHMB 0.3W	1	
VR6602	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
X1100	H0J100500030	CRYSTAL	1	
X1101	H0J327200114	CRYSTAL	1	
X2101	H0J184500027	CRYSTAL	1	
X4004	H0J270500087	CRYSTAL	1	
X8003	H0J241500003	CRYSTAL	1	TH-50PX60B PAVCCZ
X8006	H0J270500090	CRYSTAL	1	TH-50PX60B PAVCCZ
X9000	H2D200500011	CRYSTAL	1	
X9500	H0J200500038	CRYSTAL	1	
XV01	K1KAB0A00011	CONNECTOR	1	TH-50PX60B
ZA2101-08	TESA169	SHIELD CLIP	8	
ZA2300,01	K4CZ01000027	COMPATIBLE WITH JALCO K9	2	
ZA3401-05	K4CZ01000027	COMPATIBLE WITH JALCO K9	5	
ZA3701	K4CD01000013	TERMINAL	1	
ZA4001,02	K4CD08000002	TERMINAL	2	
ZA6001-03	K4CD01000011	TERMINAL	3	
ZA6401-03	K4CD01000011	TERMINAL	3	
ZA7101-05	K4CD01000013	TERMINAL	5	
ZA7201-05	K4CD01000013	TERMINAL	5	
ZA7301-05	K4CD01000013	TERMINAL	5	
ZA7401-05	K4CD01000013	TERMINAL	5	
ZA7501-05	K4CD01000013	TERMINAL	5	
ZA7601-05	K4CD01000013	TERMINAL	5	
ZA9001	K4CD01000011	TERMINAL	1	
A101,02	RA362MSV7	ARRESTOR	2	
C101	ECQU2A105ML	P 1UF, 250V	1	
C102	ECQU2A224ML	P 0.22UF, 250V	1	
C103,04	ECKENA221KBR	C 221P 250V	2	
C106,07	MMXC2W105K	C 1P 450V	2	
C108	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C109	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C110	ECJ2XC1H471J	C 470PF, J, 50V	1	
C111	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C112	KZE1E470	C 470U 25V	1	
C113	ECJ2XC1H471J	C 470PF, J, 50V	1	
C114	ECJ2XC1H101J	C 100PF, J, 50V	1	
C115	ECQE6472B45	C 4700U 630V	1	
C116,17	KMQ2W221L	C 220U 450V	2	
C118	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C119	ECKDNA331KB7	C 330PF, Z,	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C120	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C121	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C122,23	ECJ2FB1H104K	C 0.1UF, K, 50V	2	
C127	KMQ2W221L	C 220U 450V	1	
C128	TBB106K1A	C 10U 10V	1	
C129	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C201,02	KZE1E470	C 470U 25V	2	
C203,04	RR3DD101K7	C 100P 2KV	2	
C206	ECWH8473HV	P 0.047PF, J, 8KV	1	
C251	KMQ220901Z	C 900U 220V	1	
C253,54	KMQ220901Z	C 900U 220V	2	
C256,57	ECQE2473SKF	C 0.047U 250V	2	
C301	KZE1E470	C 470U 25V	1	
C302,03	RR3DD101K7	C 100P 2KV	2	
C305	ECWH8183HV	C 0.018UF 800V	1	
C306	KZE1E470	C 470U 25V	1	
C351-53	KZE1E182S	C 1800UF 25V	3	
C354,55	ECQV1H474JL	P 0.47UF, J, 50V	2	
C356	KZE1E821L	C 8200UF 25V	1	
C357	TEB104K5	C 0.1UF 50V	1	
C358	KZE1E331S	C 330UF 25V	1	
C359	TEB104K5	C 0.1UF 50V	1	
C360	KZE1E101	C 100UF 25V	1	
C361	TEB104K5	C 0.1UF 50V	1	
C363	KZE1E821L	C 8200UF 25V	1	
C364	TEB104K5	C 0.1UF 50V	1	
C365	KZE2A270	C 27UF 100V	1	
C401	KZE2A270	C 27UF 100V	1	
C402	KZE2A471S	C 470UF 100V	1	
C404,05	KZE2A471S	C 470UF 100V	2	
C501	ECQU2A473ML	P 0.047UF, M,250V	1	
C502,03	ECJ2FB1H104K	C 0.1UF, K, 50V	2	
C504	KZE1E101	C 100UF 25V	1	
C505	KZE1E470	C 470U 25V	1	
C506	KXG2W330	C 330UF 450V	1	
C508	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C509	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C510	KZE1H101	C 100UF 50V	1	
C514	KZE1E101	C 100UF 25V	1	
C515	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C551	ECKENA221KBR	C 220P 250V	1	
C552	KZE1E331S	C 330UF 25V	1	
C555	TBB474K2	C 0.47UF 25V	1	
C556	KZE1E101	C 100UF 25V	1	
C557	TBB475K1	C 4.7UF 16V	1	
C558	KZE1A471	C 470UF 10V	1	
C559-61	TEB104K5	C 0.1UF 50V	3	
D101,02	MA111	DIODE	2	
D104	S3V60	DIODE	1	
D107	MA111	DIODE	1	
D109	ERA15-10	DIODE	1	
D201,02	MA165	DIODE	2	
D203,04	MA728	DIODE	2	
D251	YG901C3R	DIODE	1	
D252	MA111	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D253-55	YG901C3R	DIODE	3	
D301,02	MA165	DIODE	2	
D303,04	MA728	DIODE	2	
D351,52	YG805C06R	DIODE	2	
D355	AG01A	DIODE	1	
D401	YG901C3R	DIODE	1	
D402	AG01	DIODE	1	
D403	YG901C3R	DIODE	1	
D501	S1WBA80	DIODE	1	
D502,03	ERA22-10	DIODE	2	
D505	MA111	DIODE	1	
D506	ST3D82	SURGE PROTECTOR	1	
D508	AG01A	DIODE	1	
D511	ERA91-02	DIODE	1	
D551	RK39	DIODE	1	
D554	MA165	DIODE	1	
D555	MA111	DIODE	1	
D556	MA165	DIODE	1	
F201	216005BP	FUSE 250V 5A	1	
F301	216005BP	FUSE 250V 5A	1	
F501	216002BP	FUSE 250V 2A	1	
IC101	FA5502P	CONTROL	1	
IC401	AN1431T	LINEAR IC	1	
IC501	MIP3E30MP	CONTROL	1	
K101	DG12D1-0	RELAY	1	
K102	DLS12D1-0	RELAY	1	
L101,02	P3180207Z	CHOKE COIL	2	
L103	ETB44CZ129AD	TRANS	1	
L104	EXCELSR35T	BEAD CHOKE	1	
L106	EXCELSR35T	BEAD CHOKE	1	
L108	EXCELSR35T	BEAD CHOKE	1	
L352,53	EXCELDR35C	BEAD CHOKE	2	
L501	EXCELSA35	BEAD CHOKE	1	
L502	EXCELDR35C	BEAD CHOKE	1	
MC101	MP00P7	MODULE	1	
MC201	MLZNC101	MODULE	1	
MC202	MP00R1	MODULE	1	
MC301	MLZNC221	MODULE	1	
MC502	MLWNB103	MODULE	1	
MC601	MLSZA100	MODULE	1	
MC701	MLZDC103	MODULE	1	
P2	B2P3-VH-B	CONNECTOR	1	
P5	B11B-PH-KS	CONNECTOR	1	
P9	B3P4VH-B-L	CONNECTOR	1	
P10	B6B-PH-KS	CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P11	B2P3-VH-B	CONNECTOR	1	
P12	B10B-PH-KS	CONNECTOR	1	
P23	B3B-PH-KS	CONNECTOR	1	
P25	B20B-PHDSS	CONNECTOR	1	
PC503	PS2581A	PHOTO CAPLER	1	
PC505,06	PS2581A	PHOTO CAPLER	2	
Q103	2SD2185	TRANSISTOR	1	
Q104	2SB1440	TRANSISTOR	1	
Q106	2SD1819A	TRANSISTOR	1	
Q301,02	2SK3568	FET	2	
Q351,52	2SK3813	FET	2	
Q353,54	2SB1218A	TRANSISTOR	2	
Q401	2SA1699	TRANSISTOR	1	
Q402	2SK3302	FET	1	
Q403	2SD601A	TRANSISTOR	1	
Q404,05	2SK2391	FET	2	
Q406	2SD601A	TRANSISTOR	1	
Q501	2SK3302	FET	1	
Q502	2SK2731T	FET	1	
Q551,52	HAT1130R	FET	2	
Q553	2SB710A	TRANSISTOR	1	
R101	ERC12UGK185	S 1.8MOHM, K,1/2W	1	
R103	R5B100J	W 10 OHM, J, 5W	1	
R104-06	ERJ6ENF1213	M 121KOHM, 1/10W	3	
R107	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R108	ERJ6ENF1213	M 121KOHM, 1/10W	1	
R109-11	RF5EJR18B	F 0.18OHM, J, 5W	3	
R113	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R114	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R115	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R116	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R117	ERJ12YJ330	M 33 OHM,J, 1/2W	1	
R118	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R119	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R120	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R122	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R123	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R125	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R127-29	ERJ6GEYJ183	M 18KOHM,J,1/10W	3	
R130	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R131	ER0S2CKF4993	M 499KOHM, F,1/4W	1	
R132,33	ERJ6ENF2493	M 249KOHM, 1/10W	2	
R134	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R135	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R136	ERJ6ENF3162	M31.6KOHM, 1/10W	1	
R137	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R138	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R139	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R140-42	ERJ6ENF5493	M 549KOHM, 1/10W	3	
R143	ERJ6ENF6041	M6.04KOHM, 1/10W	1	
R144	ERJ6ENF6191	M6.19KOHM, 1/10W	1	
R145	ERJ6GEYJ204	M 200KOHM,J,1/10W	1	
R146	ERJ6GEYJ684	M 680KOHM,J,1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R147	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R149	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R150,51	ERJ6ENF2493	M 249KOHM, 1/10W	2	
R201,02	ERJ12YJ221U	M 220 OHM,J, 1/2W	2	
R203,04	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R205-07	ERJ12YJ683	M 68KOHM, 1/2W	3	
R208,09	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R210	ERX12SJ1R0	M 0.1 OHM, J,1/2W	1	
R251,52	ERG2SJ183H	M 18KOHM, J, 2W	2	
R253-55	ERJ6GEYJ114	M 110KOHM,J,1/10W	3	
R256,57	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	2	
R258-61	ERJ6ENF6192	M61.9KOHM, 1/10W	4	
R262	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R301,02	ERJ12YJ101	M 100 OHM,J, 1/2W	2	
R303,04	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R305-07	ERJ12YJ683	M 68KOHM,J, 1/2W	3	
R308,09	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R310	ERX12SJ1R0	M 0.1 OHM, J,1/2W	1	
R351	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R353	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R354	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R356,57	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R358	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R359,60	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R361	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R362	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R363	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R364	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R365-67	ERJ6GEYJ223	M 22KOHM,J,1/10W	3	
R368	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R369,70	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R371	ERJ6ENF1622	M16.2KOHM, 1/10W	1	
R372	ERJ6GEYJ1R0	M 1 OHM,J,1/10W	1	
R373	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R401	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R402,03	ERJ12YJ104U	M 100KOHM, 1/2W	2	
R404	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R405,06	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R407	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R408	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R409	ERG2SJ682	M 6.8KOHM, J, 2W	1	
R410	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R412	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R413	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R414-17	ERJ6GEYJ123	M 12KOHM,J,1/10W	4	
R418	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R420	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R421	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R422	ERJ6ENF1581	M1.58KOHM, 1/10W	1	
R423,24	ERJ6ENF7152	M71.5KOHM, 1/10W	2	
R425	ERJ6ENF3002	M 30KOHM, 1/10W	1	
R426	RF2EJR47B	W0.47 OHM, J, 2W	1	
R428	ERJ6ENF6342	M6.34KOHM, 1/10W	1	
R429	ERJ6ENF5362	M5.36KOHM, 1/10W	1	
R430	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R474	ERJ6ENF1052	M10.5KOHM, 1/10W	1	
R477-80	ERJ6ENF1052	M10.5KOHM, 1/10W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R501	ERJ12YJ474	M 470KOHM, 1/2W	1	
R503	ERJ12YJ474	M 470KOHM, 1/2W	1	
R505	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R507,08	ERJ6GEYJ334	M 330KOHM,J,1/10W	2	
R509-12	ERJ6ENF8253	M 825KOHM, 1/10W	4	
R514,15	ERJ6ENF8253	M 825KOHM, 1/10W	2	
R518	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R519	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R528,29	ERJ6ENF2703	M 270KOHM, 1/10W	2	
R530	ER0S2TKF5363	M 536KOHM, F,1/4W	1	
R531	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R560	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R561	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R563	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R564	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R565	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R566	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R567	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R568	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R569,70	ERJ12YJ151	M 150 OHM,J, 1/2W	2	
R571	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R572,73	ERJ6ENF2703	M 270KOHM, 1/10W	2	
R574	ER0S2TKF5363	M 536KOHM, F,1/4W	1	
R580	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
RF101	A5MC100JP2	139C 10	1	
T201	ETB57LZ156AD	TRANS	1	
T301	ETB50LZ116AD	TRANS	1	
T501	ETB25KA1C6AD	TRANS	1	
VR251	EVMEASA01B54	VARIABLE RESISTOR	1	
VR351	EVMEASA01B14	VARIABLE RESISTOR	1	
VR401	EVMEASA01B34	VARIABLE RESISTOR	1	
Z101	TND14V751	VARISTOR	1	
Z102	ERZVGAD471	VARISTOR	1	
Z501	ERZVGAD471	VARISTOR	1	
ZD101	MA8051	ZENER DIODE	1	
ZD351-54	MA8150	ZENER DIODE	4	
ZD405,06	MA4300N	ZENER DIODE	2	
ZD407	MA4120N	ZENER DIODE	1	
ZD408	MA8220	ZENER DIODE	1	
ZD501	MA8270	ZENER DIODE	1	
ZD502	MA4300N	ZENER DIODE	1	

17. Schematic Diagram for printing with A4

14 Schematic and Block Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

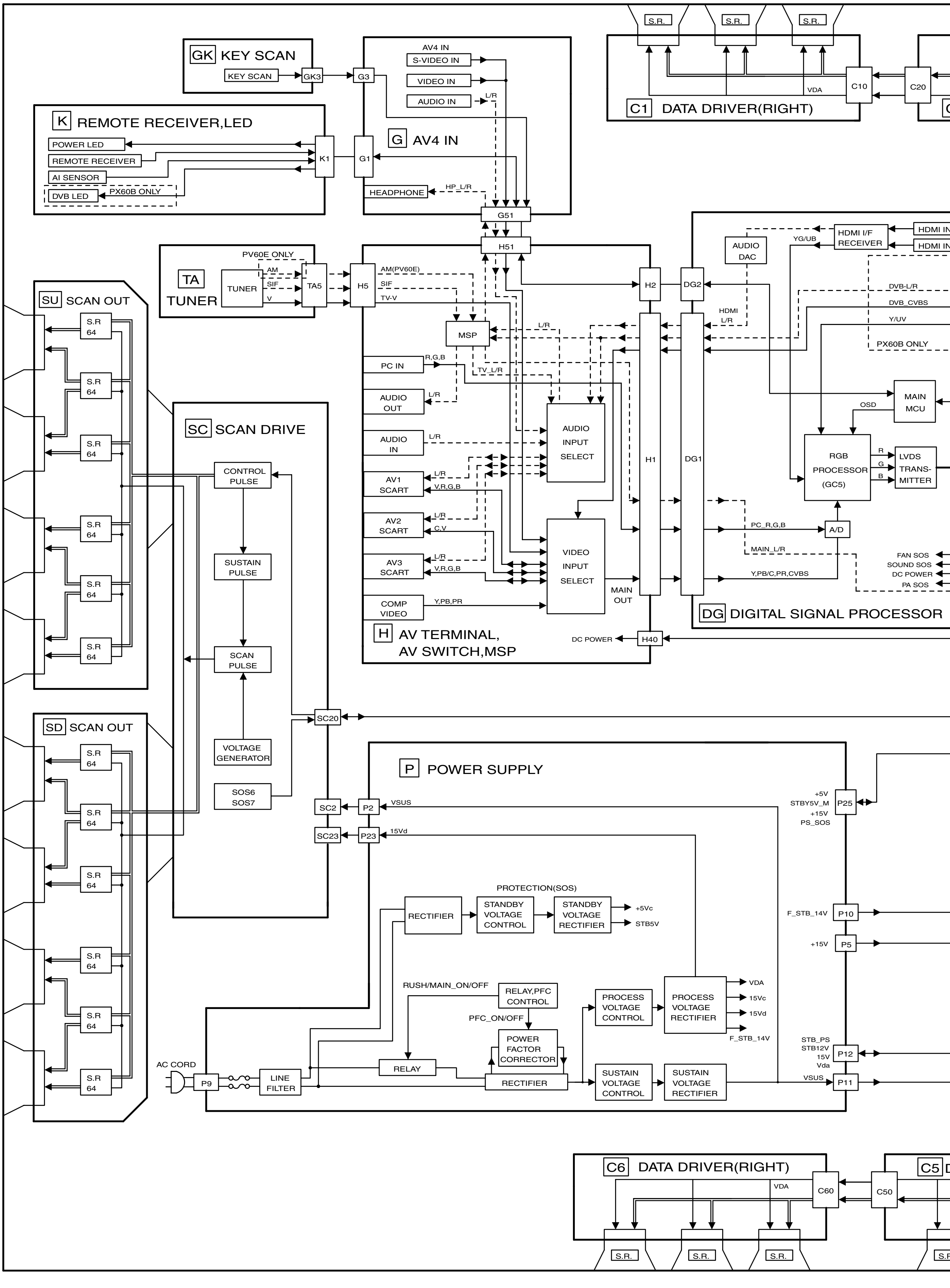
Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is µF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC220-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

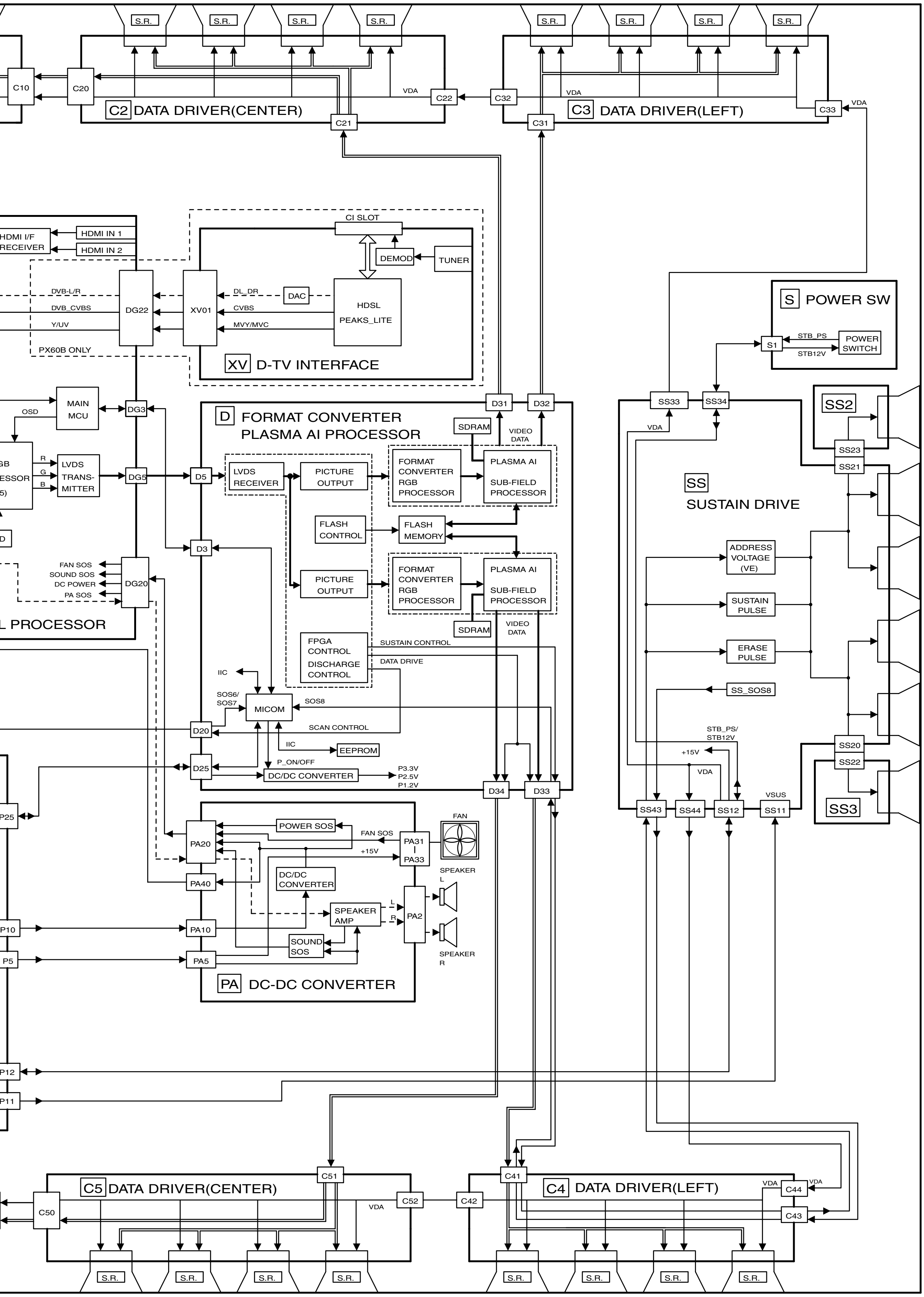
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

14.2. Main Block Diagram

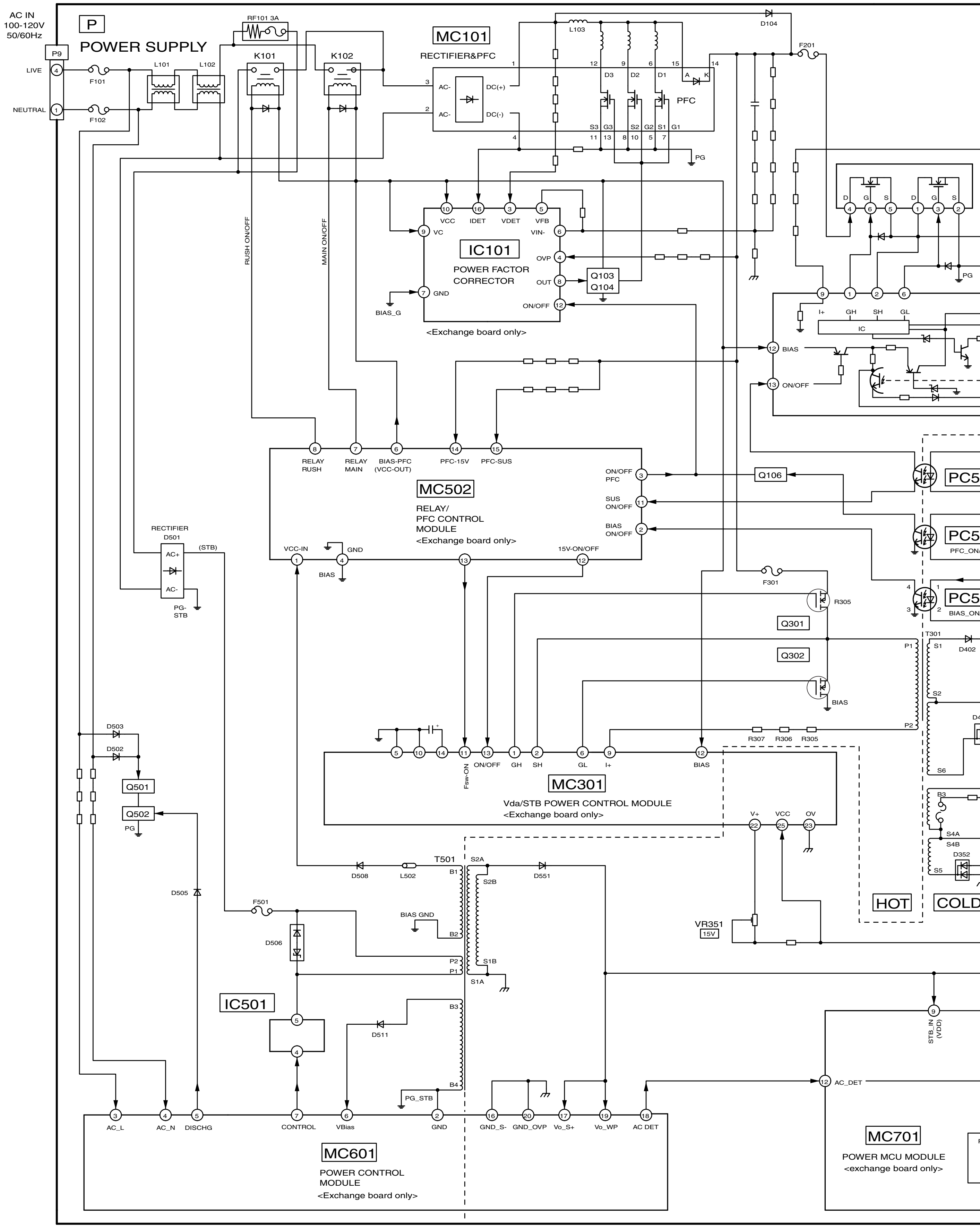

GK KEY SCAN
KEY SCAN
GK3
G3
AV4 IN
S-VIDEO IN
VIDEO IN
AUDIO IN
L/R
K REMOTE RECEIVER,LED
POWER LED
REMOTE RECEIVER
AI SENSOR
DVB LED
PX60B ONLY
K1
G1
G AV4 IN
HEADPHONE
HP_L/R
G51
H51
S.R.
C1 DATA DRIVER(RIGHT)
VDA
C10
C20
TA TUNER
PV60E ONLY
TUNER
AM
SIF
V
TA5
H5
AM(PV60E)
SIF
TV-V
H2
DG2
AUDIO DAC
HDMI I/F RECEIVER
HDMI IN
YG/UB
DVB-L/R
DVB_CVBS
Y/UV
PX60B ONLY
HDMI L/R
MSP
L/R
SU SCAN OUT
S.R 64
PC IN
R,G,B
TV_L/R
AUDIO OUT
AUDIO IN
AUDIO INPUT SELECT
AV1 SCART
V,R,G,B
AV2 SCART
C.V
AV3 SCART
COMP VIDEO
Y,PB,PR
VIDEO INPUT SELECT
MAIN OUT
H1
DG1
MAIN MCU
OSD
RGB PROCESSOR (GC5)
R
G
B
LVDS TRANS-MITTER
A/D
PC_R,G,B
MAIN_L/R
Y,PB/C,PR,CVBS
FAN SOS
SOUND SOS
DC POWER
PA SOS
DG DIGITAL SIGNAL PROCESSOR
H AV TERMINAL, AV SWITCH,MSP
DC POWER
H40
SC SCAN DRIVE
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SOS6 SOS7
SC20
SD SCAN OUT
SC2
SC23
P2
P23
VSUS
15Vd
P POWER SUPPLY
+5V
STBY5V_M
+15V
PS_SOS
P25
PROTECTION(SOS)
RECTIFIER
STANDBY VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
+5Vc
STB5V
F_STB_14V
P10
+15V
P5
RUSH/MAIN_ON/OFF
RELAY,PFC CONTROL
PFC_ON/OFF
POWER FACTOR CORRECTOR
PROCESS VOLTAGE CONTROL
PROCESS VOLTAGE RECTIFIER
VDA
15Vc
15Vd
F_STB_14V
STB_PS
STB12V
15V
Vda
P12
AC CORD
P9
LINE FILTER
RELAY
RECTIFIER
SUSTAIN VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
VSUS
P11
C6 DATA DRIVER(RIGHT)
VDA
C60
C50
C5

TH-50PV60E, TH-50PX60B
Main Block Diagram

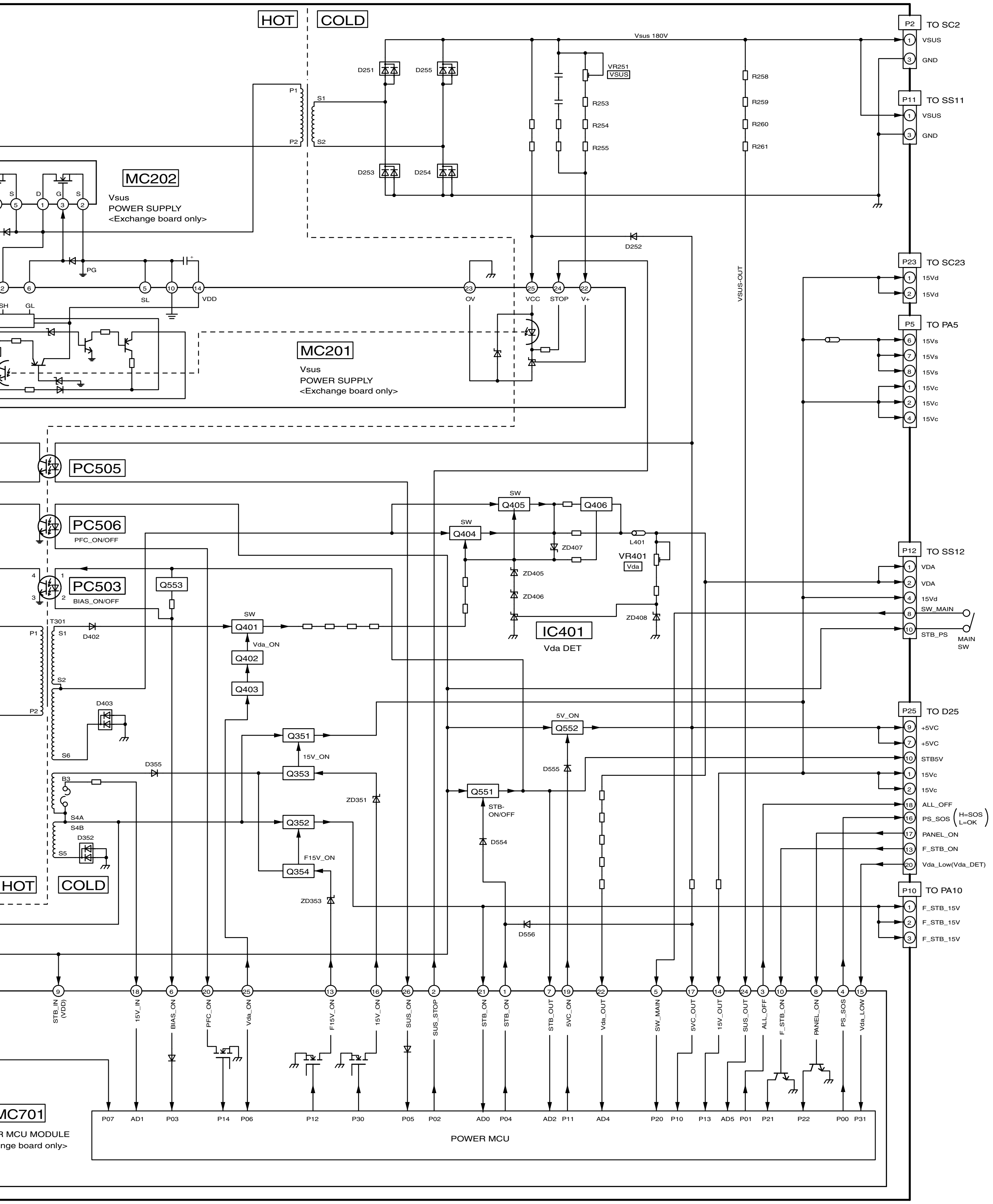

S.R.
C10
C20
C2 DATA DRIVER(CENTER)
VDA
C21
C22
C32
C3 DATA DRIVER(LEFT)
C31
C33
CI SLOT
DEMOD
TUNER
HDMI I/F RECEIVER
HDMI IN 1
HDMI IN 2
DVB-L/R
DVB_CVBS
Y/UV
PX60B ONLY
DG22
XV01
DL_DR
DAC
CVBS
MVY/MVC
HDSL PEAKS_LITE
XV D-TV INTERFACE
S POWER SW
S1
STB_PS
STB12V
POWER SWITCH
MAIN MCU
OSD
DG3
D31
D32
D FORMAT CONVERTER PLASMA AI PROCESSOR
SDRAM
VIDEO DATA
R
G
B
LVDS TRANS-MITTER
DG5
D5
LVDS RECEIVER
PICTURE OUTPUT
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
FLASH CONTROL
FLASH MEMORY
D3
FAN SOS
SOUND SOS
DC POWER
PA SOS
DG20
L PROCESSOR
FPGA CONTROL DISCHARGE CONTROL
SUSTAIN CONTROL
DATA DRIVE
IIC
SOS6/ SOS7
MICOM
SOS8
SCAN CONTROL
D20
EEPROM
P_ON/OFF
D25
DC/DC CONVERTER
P3.3V
P2.5V
P1.2V
D34
D33
SS33
SS34
SS2
SS23
SS21
SS SUSTAIN DRIVE
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS_SOS8
STB_PS/ STB12V
+15V
VDA
VSUS
SS20
SS22
SS3
SS43
SS44
SS12
SS11
P25
POWER SOS
FAN SOS
FAN
PA20
+15V
PA31 I PA33
PA40
DC/DC CONVERTER
SPEAKER L
SPEAKER AMP
L
R
PA2
P10
PA10
SOUND SOS
P5
PA5
SPEAKER R
PA DC-DC CONVERTER
P12
P11
C51
C41
C5 DATA DRIVER(CENTER)
C50
VDA
C52
C42
C4 DATA DRIVER(LEFT)
C44
C43

TH-50PV60E, TH-50PX60B
Main Block Diagram

14.3. P-Board Block Diagram

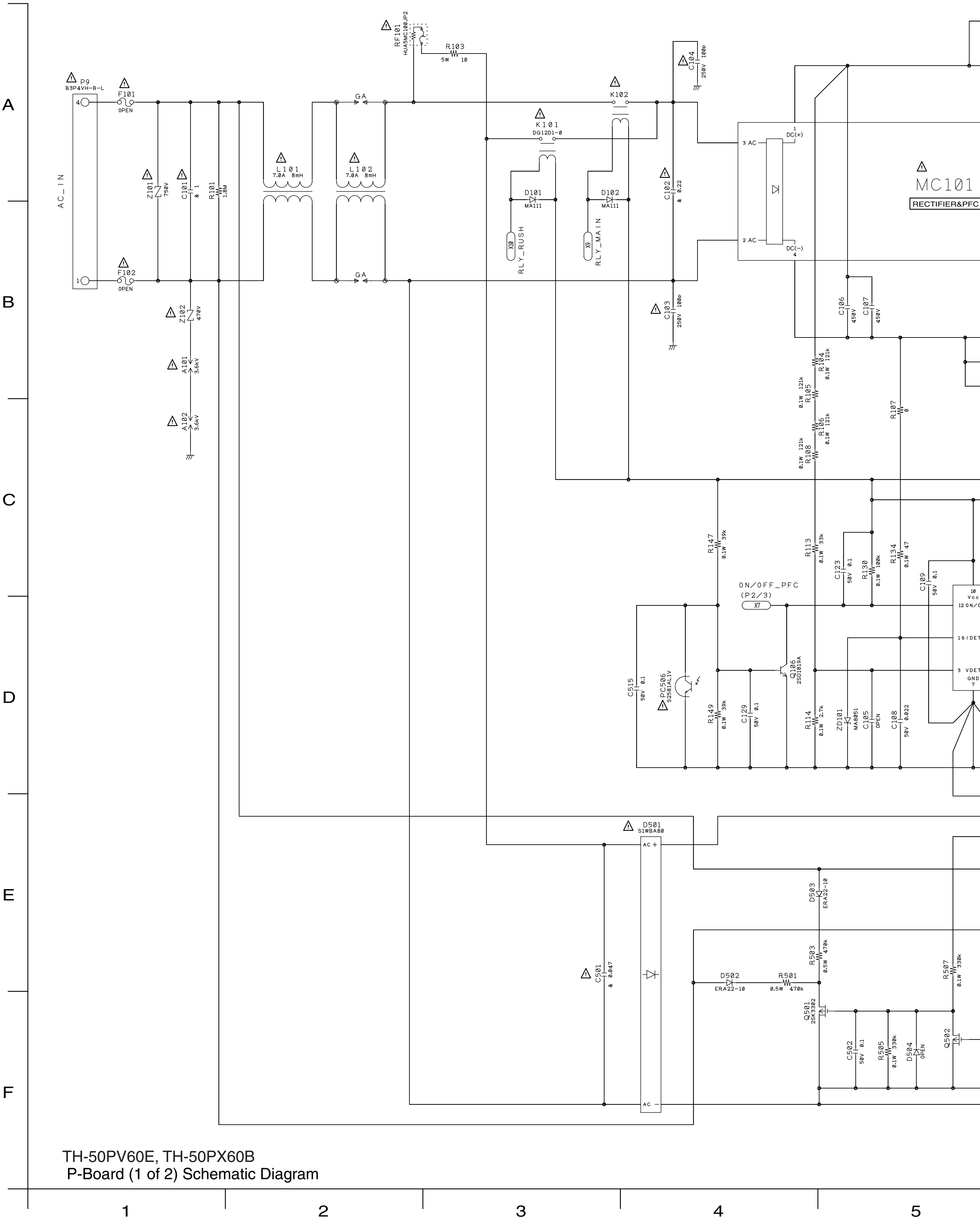

AC IN
100-120V
50/60Hz
P9
LIVE
NEUTRAL
P
POWER SUPPLY
F101
F102
L101
L102
RF101 3A
K101
K102
MC101
RECTIFIER&PFC
AC-
DC(+)
DC(-)
L103
D104
F201
D3
D2
D1
PFC
S3 G3
S2 G2
S1 G1
PG
RUSH ON/OFF
MAIN ON/OFF
IC101
POWER FACTOR CORRECTOR
VCC
IDET
VDET
VFB
VC
VIN-
OVP
OUT
GND
ON/OFF
BIAS_G
<Exchange board only>
Q103
Q104
I+
GH
SH
GL
IC
BIAS
ON/OFF
MC502
RELAY/ PFC CONTROL MODULE
<Exchange board only>
RELAY RUSH
RELAY MAIN
BIAS-PFC (VCC-OUT)
PFC-15V
PFC-SUS
ON/OFF PFC
SUS ON/OFF
BIAS ON/OFF
VCC-IN
GND
15V-ON/OFF
Q106
PC5
PC5
PFC_ON
PC5
BIAS_ON
RECTIFIER
D501
AC+
AC-
(STB)
PG-STB
F301
R305
Q301
Q302
T301
S1
D402
P1
S2
P2
S6
B3
S4A
S4B
D352
S5
R307
R306
R305
MC301
Vda/STB POWER CONTROL MODULE
<Exchange board only>
Fsw-ON
ON/OFF
GH
SH
GL
I+
BIAS
V+
VCC
OV
HOT
COLD
VR351
15V
D503
D502
Q501
Q502
PG
D505
F501
D506
T501
D508
L502
B1
S2A
S2B
D551
BIAS GND
B2
P2
P1
S1B
S1A
IC501
D511
B3
B4
PG_STB
MC601
POWER CONTROL MODULE
<Exchange board only>
AC_L
AC_N
DISCHG
CONTROL
VBias
GND
GND_S-
GND_OVP
Vo_S+
Vo_WP
AC DET
STB_IN (VDD)
AC_DET
MC701
POWER MCU MODULE
<exchange board only>

TH-50PV60E, TH-50PX60B
P-Board Block Diagram

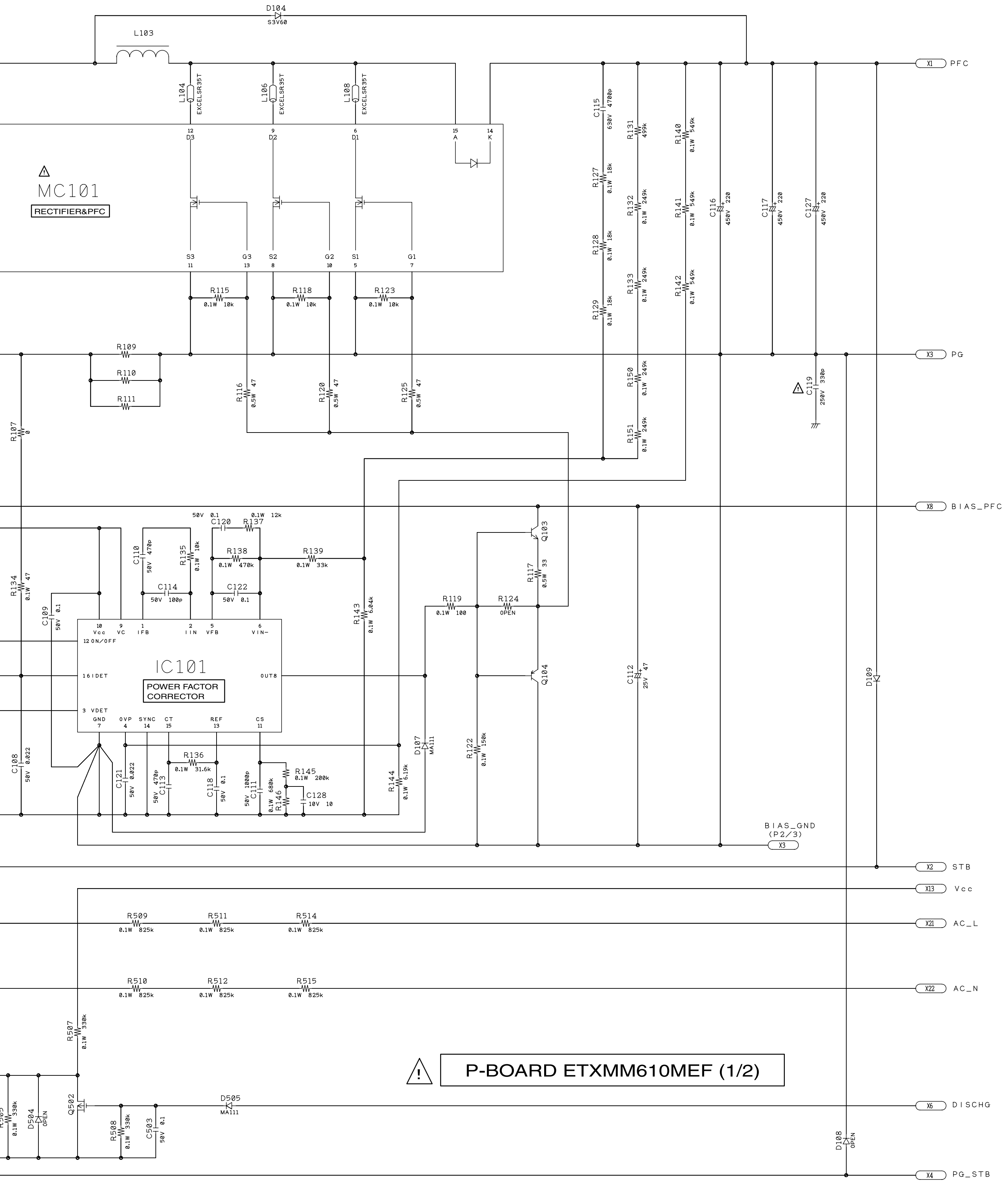

HOT
COLD
Vsus 180V
P2
TO SC2
VSUS
GND
D251
D255
VR251
VSUS
R258
P1
S1
R253
R259
P11
TO SS11
VSUS
R254
R260
P2
S2
R255
R261
GND
D253
D254
MC202
Vsus
POWER SUPPLY
<Exchange board only>
S
D
G
S
D252
PG
P23
TO SC23
15Vd
15Vd
SL
VDD
OV
VCC
STOP
V+
VSUS-OUT
SH
GL
P5
TO PA5
15Vs
15Vs
15Vs
15Vc
15Vc
15Vc
MC201
Vsus
POWER SUPPLY
<Exchange board only>
PC505
PC506
PFC_ON/OFF
SW
Q405
Q406
SW
Q404
L401
ZD407
VR401
Vda
P12
TO SS12
VDA
VDA
15Vd
SW_MAIN
STB_PS
MAIN SW
PC503
BIAS_ON/OFF
Q553
ZD405
ZD406
ZD408
T301
SW
Q401
IC401
Vda DET
D402
Vda_ON
Q402
Q403
D403
P25
TO D25
+5VC
+5VC
STB5V
15Vc
15Vc
ALL_OFF
PS_SOS
H=SOS
L=OK
PANEL_ON
F_STB_ON
Vda_Low(Vda_DET)
5V_ON
Q552
Q351
15V_ON
D355
Q353
D555
B3
Q551
STB-
ON/OFF
ZD351
S4A
S4B
Q352
D352
D554
S5
F15V_ON
Q354
HOT
COLD
ZD353
P10
TO PA10
F_STB_15V
F_STB_15V
F_STB_15V
D556
STB_IN (VDD)
15V_IN
BIAS_ON
PFC_ON
Vda_ON
F15V_ON
15V_ON
SUS_ON
SUS_STOP
STB_ON
STB_ON
STB_OUT
5VC_ON
Vda_OUT
SW_MAIN
5VC_OUT
15V_OUT
SUS_OUT
ALL_OFF
F_STB_ON
PANEL_ON
PS_SOS
Vda_LOW
P07
AD1
P03
P14
P06
P12
P30
P05
P02
AD0
P04
AD2
P11
AD4
P20
P10
P13
AD5
P01
P21
P22
P00
P31
POWER MCU
MC701
R MCU MODULE
nge board only>

TH-50PV60E, TH-50PX60B
P-Board Block Diagram

14.4. P-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
P9
B3P4VH-B-L
AC_IN
F101
OPEN
F102
OPEN
Z101
750V
C101
1
R101
1.8M
Z102
470V
A101
3.6kV
A102
3.6kV
L101
7.0A 8mH
L102
7.0A 8mH
GA
GA
RF101
HUA5MC100JP2
R103
5W 10
K101
DG12D1-0
K102
D101
MA111
D102
MA111
X10
RLY_RUSH
X9
RLY_MAIN
C104
250V 100p
C102
0.22
C103
250V 100p
MC101
RECTIFIER&PFC
3 AC
2 AC
1
DC(+)
DC(-)
4
C106
450V
C107
450V
R104
0.1W 121k
R105
0.1W 121k
R106
0.1W 121k
R108
0.1W 121k
R107
0
R147
0.1W 39k
R113
0.1W 33k
C123
50V 0.1
R130
0.1W 100k
R134
0.1W 47
C109
50V 0.1
10
Vcc
12 ON/O
16 IDET
3 VDET
GND
7
ON/OFF_PFC
(P2/3)
X7
Q106
2SD1819A
C515
50V 0.1
PC506
S2581AL1V
R149
0.1W 39k
C129
50V 0.1
R114
0.1W 2.7k
ZD101
MA8051
C105
OPEN
C108
50V 0.022
D501
S1WBA80
AC +
AC −
C501
0.047
D503
ERA22-10
R503
0.5W 470k
D502
ERA22-10
R501
0.5W 470k
Q501
2SK3302
C502
50V 0.1
R505
0.1W 330k
D504
OPEN
R507
0.1W 330k
Q502

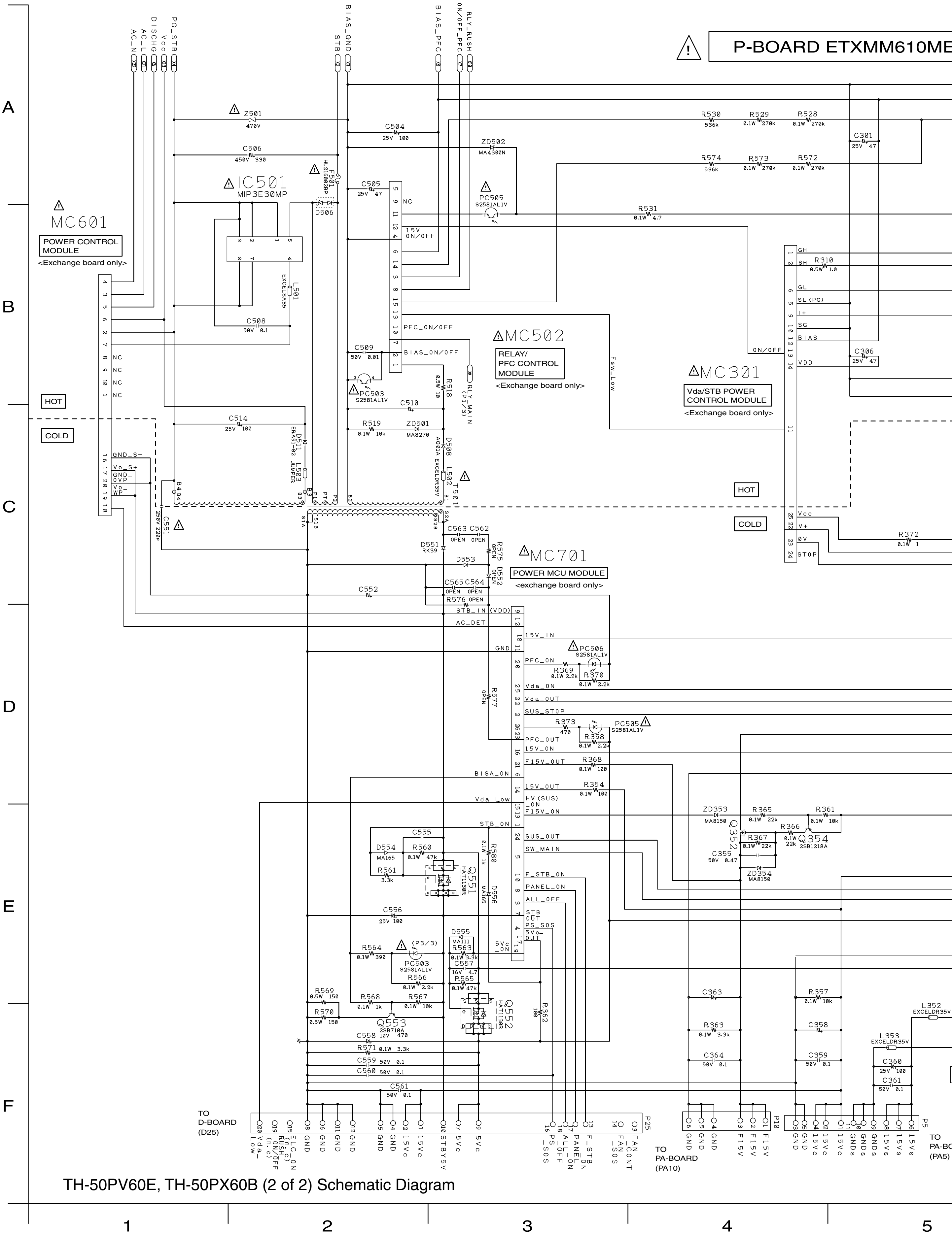
TH-50PV60E, TH-50PX60B
P-Board (1 of 2) Schematic Diagram


D104
S3V60
L103
L104
EXCELSR35T
L106
EXCELSR35T
L108
EXCELSR35T
MC101
RECTIFIER&PFC
12 D3
9 D2
6 D1
15 A
14 K
S3 11
G3 13
S2 8
G2 10
S1 5
G1 7
R115 0.1W 10k
R118 0.1W 10k
R123 0.1W 10k
R109
R110
R111
R107 0
R116 0.5W 47
R120 0.5W 47
R125 0.5W 47
C115 630V 4700p
R127 0.1W 18k
R128 0.1W 18k
R129 0.1W 18k
R131 499k
R132 0.1W 249k
R133 0.1W 249k
R150 0.1W 249k
R151 0.1W 249k
R140 0.1W 549k
R141 0.1W 549k
R142 0.1W 549k
C116 450V 220
C117 450V 220
C127 450V 220
C119 250V 330p
X1 PFC
X3 PG
X8 BIAS_PFC
C120 50V 0.1
R137 0.1W 12k
R138 0.1W 470k
R139 0.1W 33k
C110 50V 470p
R135 0.1W 10k
C114 50V 100p
C122 50V 0.1
R134 0.1W 47
C109 50V 0.1
R143 0.1W 6.04k
IC101
POWER FACTOR CORRECTOR
10 Vcc
9 VC
1 IFB
2 IIN
5 VFB
6 VIN-
12 ON/OFF
16 IDET
3 VDET
OUT 8
GND 7
OVP 4
SYNC 14
CT 15
REF 13
CS 11
R136 0.1W 31.6k
R145 0.1W 200k
C108 50V 0.022
C121 50V 0.022
C113 50V 470p
C118 50V 0.1
C111 50V 1000p
R146 0.1W 680k
C128 10V 10
R144 0.1W 6.19k
D107 MA111
R119 0.1W 100
R124 OPEN
Q103
R117 0.5W 33
Q104
R122 0.1W 150k
C112 25V 47
D109
BIAS_GND (P2/3)
X3
X2 STB
X13 Vcc
R509 0.1W 825k
R511 0.1W 825k
R514 0.1W 825k
X21 AC_L
R510 0.1W 825k
R512 0.1W 825k
R515 0.1W 825k
X22 AC_N
R507 0.1W 330k
P-BOARD ETXMM610MEF (1/2)
D505 MA111
R505 0.1W 330k
D504 OPEN
Q502
R508 0.1W 330k
C503 50V 0.1
X6 DISCHG
D108 OPEN
X4 PG_STB

TH-50PV60E, TH-50PX60B
P-Board (1 of 2) Schematic Diagram

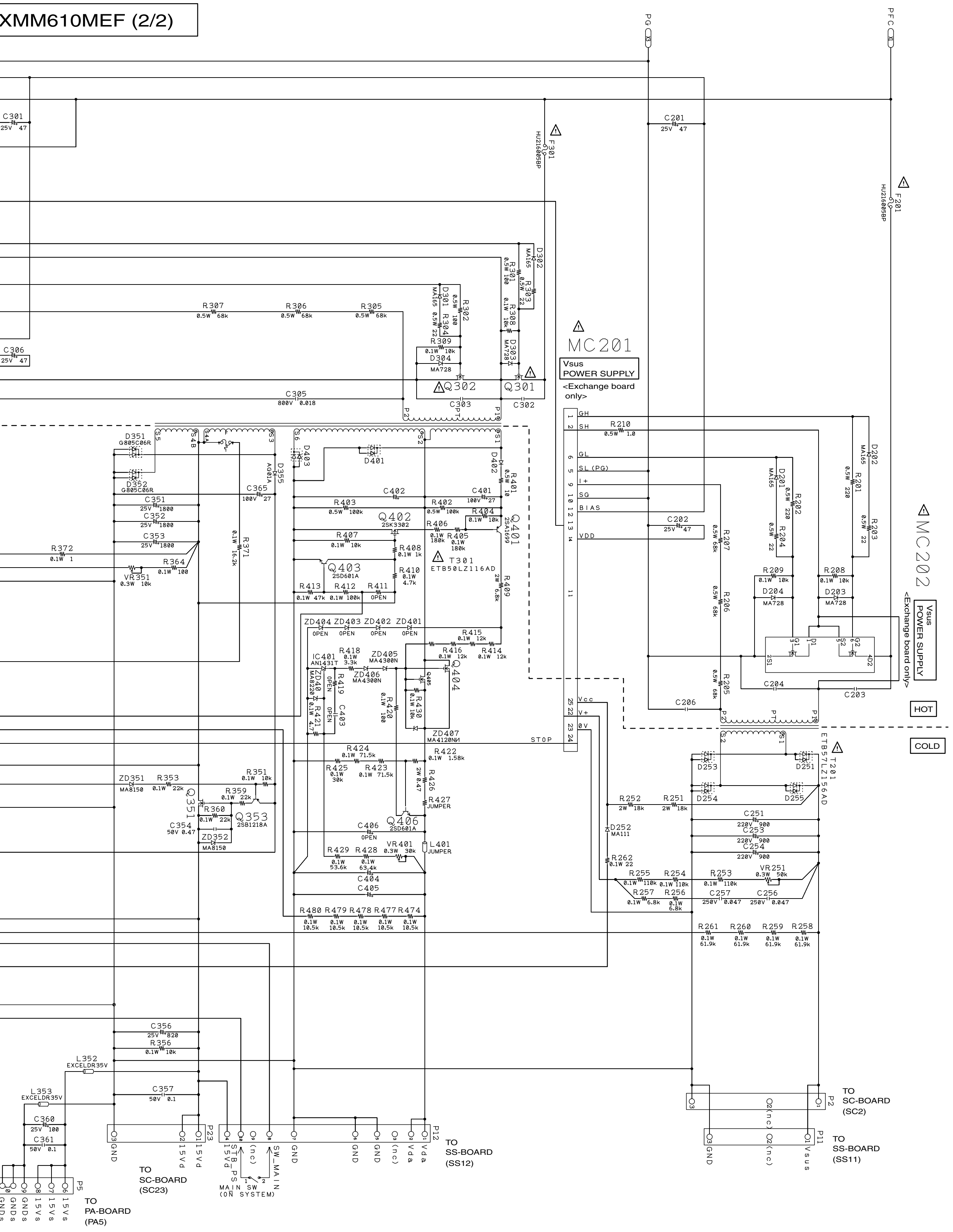
5 6 7 8 9

14.5. P-Board (2 of 2) Schematic Diagram


P-BOARD ETXMM610ME
A
B
C
D
E
F
1
2
3
4
5
MC601
POWER CONTROL MODULE
<Exchange board only>
HOT
COLD
AC_N
AC_L
DISCHG
Vcc
PG_STB
BIAS_GND
STB
BIAS_PFC
ON/OFF_PFC
RLY_RUSH
Z501 470V
C506 450V 330
IC501 MIP3E30MP
F501 HU2160028P
D506
C504 25V 100
ZD502 MA4300N
C505 25V 47
PC505 S2581AL1V
L501 EXCELSA35
C508 50V 0.1
C509 50V 0.01
PC503 S2581AL1V
C510
R518 0.5W 10
RLY_MAIN (P1/3)
MC502
RELAY/ PFC CONTROL MODULE
<Exchange board only>
15V ON/OFF
PFC_ON/OFF
BIAS_ON/OFF
C514 25V 100
D511 ERA91-02
L503 JUMPER
R519 0.1W 10k
ZD501 MA8270
D508 AG01A
L502 EXCELDR35V
T501
C551 250V 220p
D551 RK39
D553
C563 C562 OPEN OPEN
R575 OPEN
D552 OPEN
C565 C564 OPEN OPEN
R576 OPEN
C552
MC701
POWER MCU MODULE
<exchange board only>
STB_IN (VDD)
AC_DET
GND
15V_IN
PC506 S2581AL1V
PFC_ON
R369 0.1W 2.2k
R370 0.1W 2.2k
Vda_ON
Vda_OUT
SUS_STOP
R577 OPEN
R373 470
R358 0.1W 2.2k
PC505 S2581AL1V
PFC_OUT
15V_ON
F15V_OUT
R368 0.1W 100
BISA_ON
15V_OUT
R354 0.1W 100
Vda Low
HV (SUS) _ON
F15V_ON
STB_ON
SUS_OUT
SW_MAIN
F_STB_ON
PANEL_ON
ALL_OFF
STB OUT
PS_SOS
5Vc_OUT
5Vc_ON
C555
D554 MA165
R560 0.1W 47k
R561 3.3k
R580 0.1W 1k
Q551 HAT1130R
D556 MA165
C556 25V 100
D555 MA111
R563 0.1W 3.3k
C557 16V 4.7
R565 0.1W 47k
R564 0.1W 390
PC503 S2581AL1V (P3/3)
R566 0.1W 2.2k
R569 0.5W 150
R570 0.5W 150
R568 0.1W 1k
R567 0.1W 10k
Q553 2SB710A
Q552 HAT1130R
R362 100
C558 10V 470
R571 0.1W 3.3k
C559 50V 0.1
C560 50V 0.1
C561 50V 0.1
R530 536k
R529 0.1W 270k
R528 0.1W 270k
C301 25V 47
R574 536k
R573 0.1W 270k
R572 0.1W 270k
R531 0.1W 4.7
ON/OFF
MC301
Vda/STB POWER CONTROL MODULE
<Exchange board only>
GH
SH
R310 0.5W 1.0
GL
SL (PG)
I+
SG
BIAS
VDD
C306 25V 47
Fsw_Low
Vcc
V+
0V
STOP
R372 0.1W 1
ZD353 MA8150
R365 0.1W 22k
R361 0.1W 10k
Q352
R366 0.1W 22k
Q354 2SB1218A
R367 0.1W 22k
C355 50V 0.47
ZD354 MA8150
C363
R363 0.1W 3.3k
C364 50V 0.1
R357 0.1W 10k
C358
C359 50V 0.1
L352 EXCELDR35V
L353 EXCELDR35V
C360 25V 100
C361 50V 0.1
TO D-BOARD (D25)
P25
Vda_Low
ELC_ON (n.c)
RUSH_ON/OFF (n.c)
GND
15Vc
STBY5V
5Vc
PS_SOS
ALL_OFF
PANEL_ON
F_STB_ON
FAN_SOS
FAN_CONT
TO PA-BOARD (PA10)
P10
F15V
TO PA-BOARD (PA5)
P5
GNDs
15Vs

TH-50PV60E, TH-50PX60B (2 of 2) Schematic Diagram

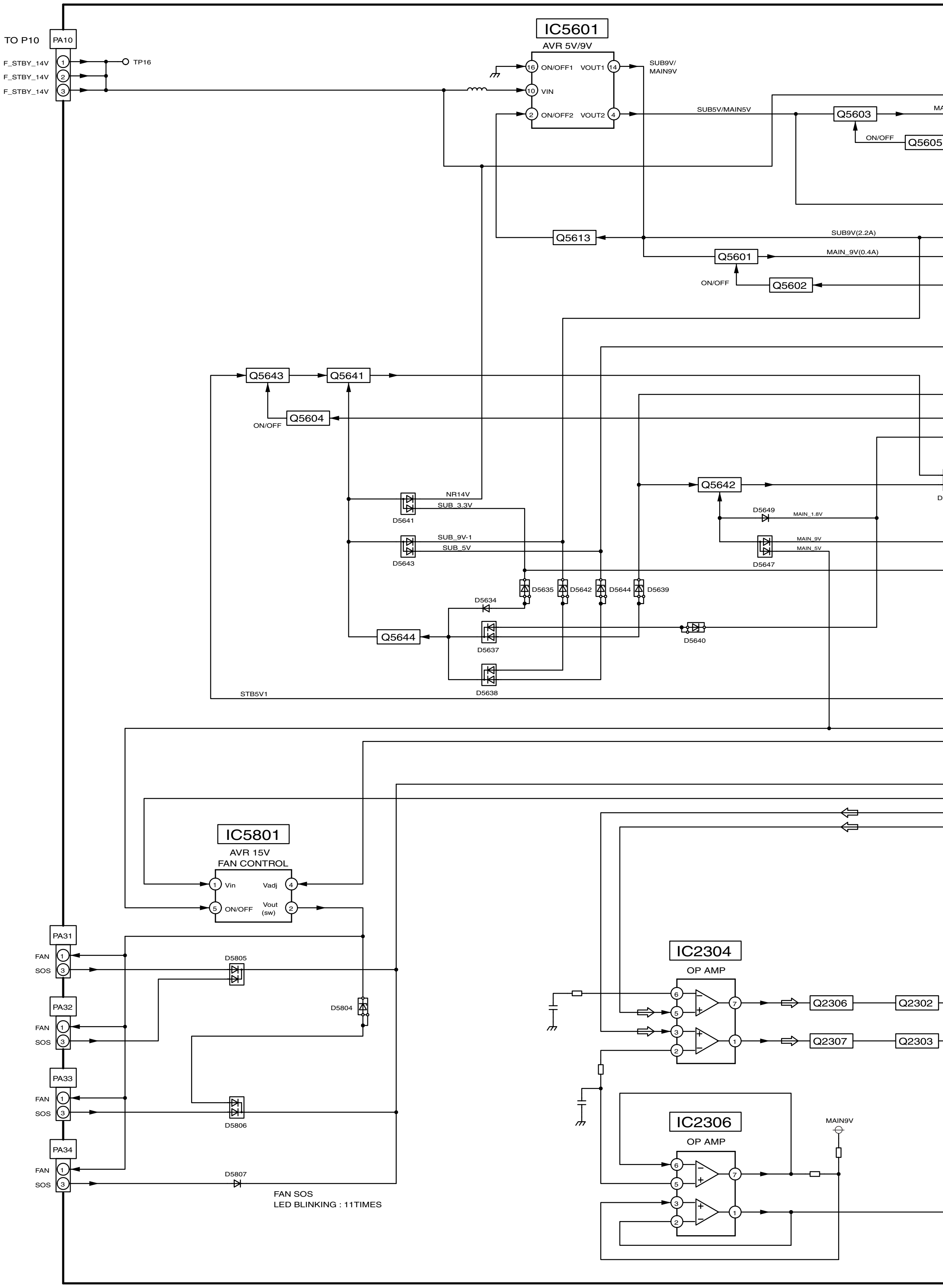
XMM610MEF (2/2)


PG
PFC
C301 25V 47
C201 25V 47
F301 HU216005BP
F201 HU216005BP
D302 MA165
R301 0.5W 100
R303 0.5W 22
R302 0.5W 100
D301 MA165
R304 0.5W 22
R308 0.1W 10k
D303 MA728
R307 0.5W 68k
R306 0.5W 68k
R305 0.5W 68k
R309 0.1W 10k
D304 MA728
C306 25V 47
MC201
Vsus POWER SUPPLY
<Exchange board only>
Q302
Q301
C305 800V 0.018
C303
C302
P2
P1
PT
GH
SH
GL
SL (PG)
I+
SG
BIAS
VDD
Vcc
V+
0V
STOP
R210 0.5W 1.0
D202 MA165
R201 0.5W 220
D201 MA165
R202 0.5W 220
R203 0.5W 22
R204 0.5W 22
C202 25V 47
R207 0.5W 68k
MC202
Vsus POWER SUPPLY
<Exchange board only>
R209 0.1W 10k
R208 0.1W 10k
D204 MA728
D203 MA728
R206 0.5W 68k
R205 0.5W 68k
C204
C203
C206
HOT
COLD
D351 G8O5C06R
D352 G8O5C06R
D355 AG01A
D403
D401
D402
R401 0.5W 10
C365 100V 27
C402
C401 100V 27
C351 25V 1800
C352 25V 1800
C353 25V 1800
R403 0.5W 100k
R402 0.5W 100k
R404 0.1W 10k
Q402 2SK3302
R406 0.1W 180k
R405 0.1W 180k
Q401 2SA1699
R407 0.1W 10k
R408 0.1W 1k
R372 0.1W 1
R371 0.1W 16.2k
R364 0.1W 100
VR351 0.3W 10k
Q403 2SD601A
T301 ETB50LZ116AD
R410 0.1W 4.7k
R409 2W 6.8k
R413 0.1W 47k
R412 0.1W 100k
R411 OPEN
ZD404 OPEN
ZD403 OPEN
ZD402 OPEN
ZD401 OPEN
R415 0.1W 12k
R416 0.1W 12k
R414 0.1W 12k
R418 0.1W 3.3k
IC401 AN1431T
ZD405 MA4300N
ZD406 MA4300N
Q404
Q405
ZD40 MA8220
R419 OPEN
R421 0.1W 4.7
C403 OPEN
R420 0.1W 100
R430 0.1W 10k
ZD407 MA4120N
R424 0.1W 71.5k
R422 0.1W 1.58k
R425 0.1W 30k
R423 0.1W 71.5k
R426 2W 0.47
R427 JUMPER
ZD351 MA8150
R353 0.1W 22k
R351 0.1W 10k
R359 0.1W 22k
Q351
R360 0.1W 22k
Q353 2SB1218A
C354 50V 0.47
ZD352 MA8150
C406 OPEN
Q406 2SD601A
R429 0.1W 53.6k
R428 0.1W 63.4k
VR401 0.3W 30k
L401 JUMPER
C404
C405
R480 0.1W 10.5k
R479 0.1W 10.5k
R478 0.1W 10.5k
R477 0.1W 10.5k
R474 0.1W 10.5k
T201 ETB57LZ156AD
D253
D251
D254
D255
R252 2W 18k
R251 2W 18k
D252 MA111
C251 220V 900
C253 220V 900
C254 220V 900
R262 0.1W 22
R255 0.1W 110k
R254 0.1W 110k
R253 0.1W 110k
VR251 0.3W 50k
R257 0.1W 6.8k
R256 0.1W 6.8k
C257 250V 0.047
C256 250V 0.047
R261 0.1W 61.9k
R260 0.1W 61.9k
R259 0.1W 61.9k
R258 0.1W 61.9k
C356 25V 820
R356 0.1W 10k
L352 EXCELDR35V
L353 EXCELDR35V
C357 50V 0.1
C360 25V 100
C361 50V 0.1
P23
GND
15Vd
15Vd
STB_PS
(nc)
SW_MAIN
MAIN SW (ON SYSTEM)
GND
GND
GND
(nc)
Vda
Vda
P12
TO SS-BOARD (SS12)
TO SC-BOARD (SC23)
P5
GNDs
GNDs
GNDs
15Vs
15Vs
15Vs
TO PA-BOARD (PA5)
P2
TO SC-BOARD (SC2)
(nc)
P11
GND
(nc)
Vsus
TO SS-BOARD (SS11)

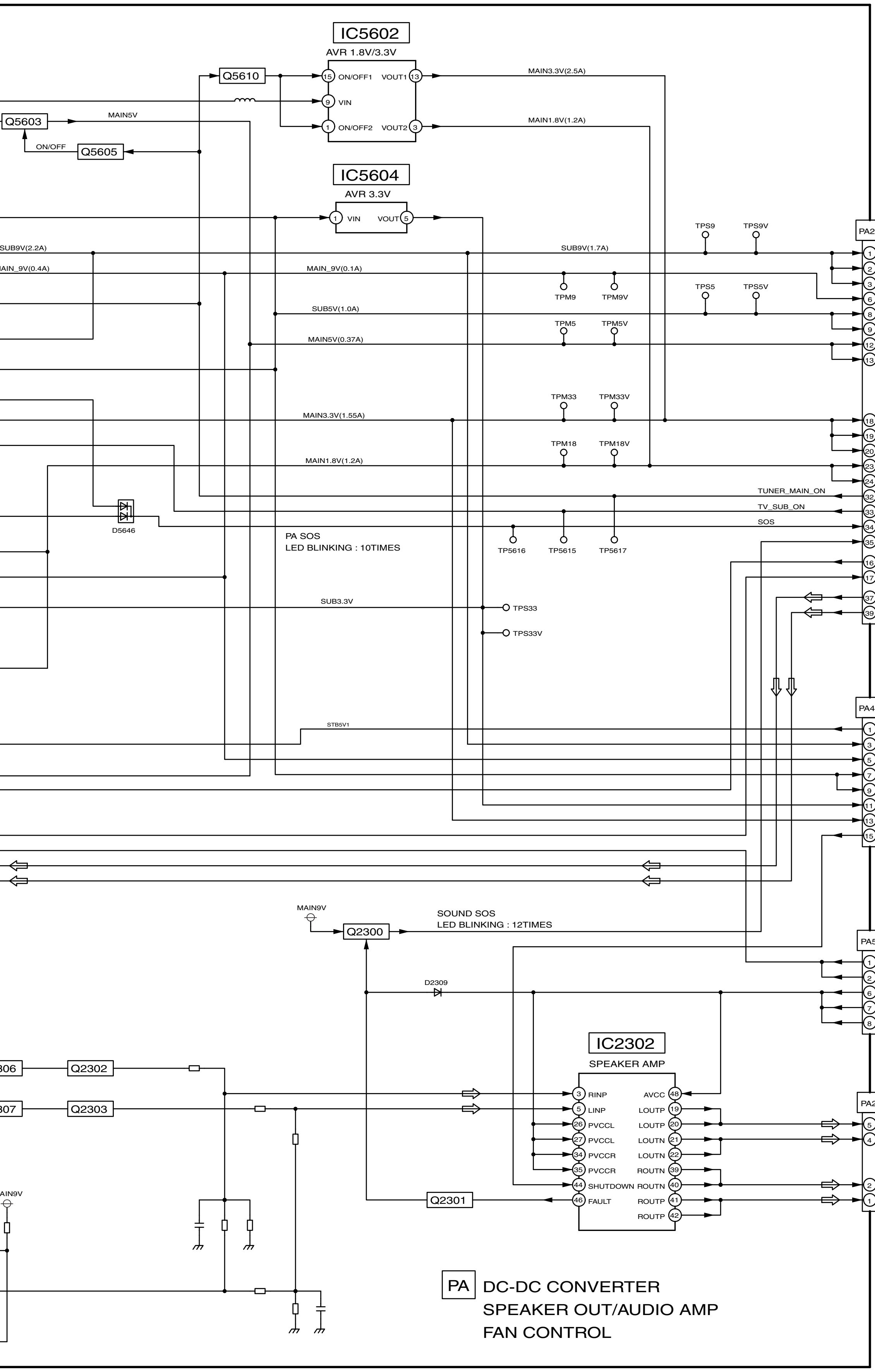
TH-50PV60E, TH-50PX60B P-Board (2 of 2) Schematic Diagram

5 6 7 8 9

14.6. PA-Board Block Diagram

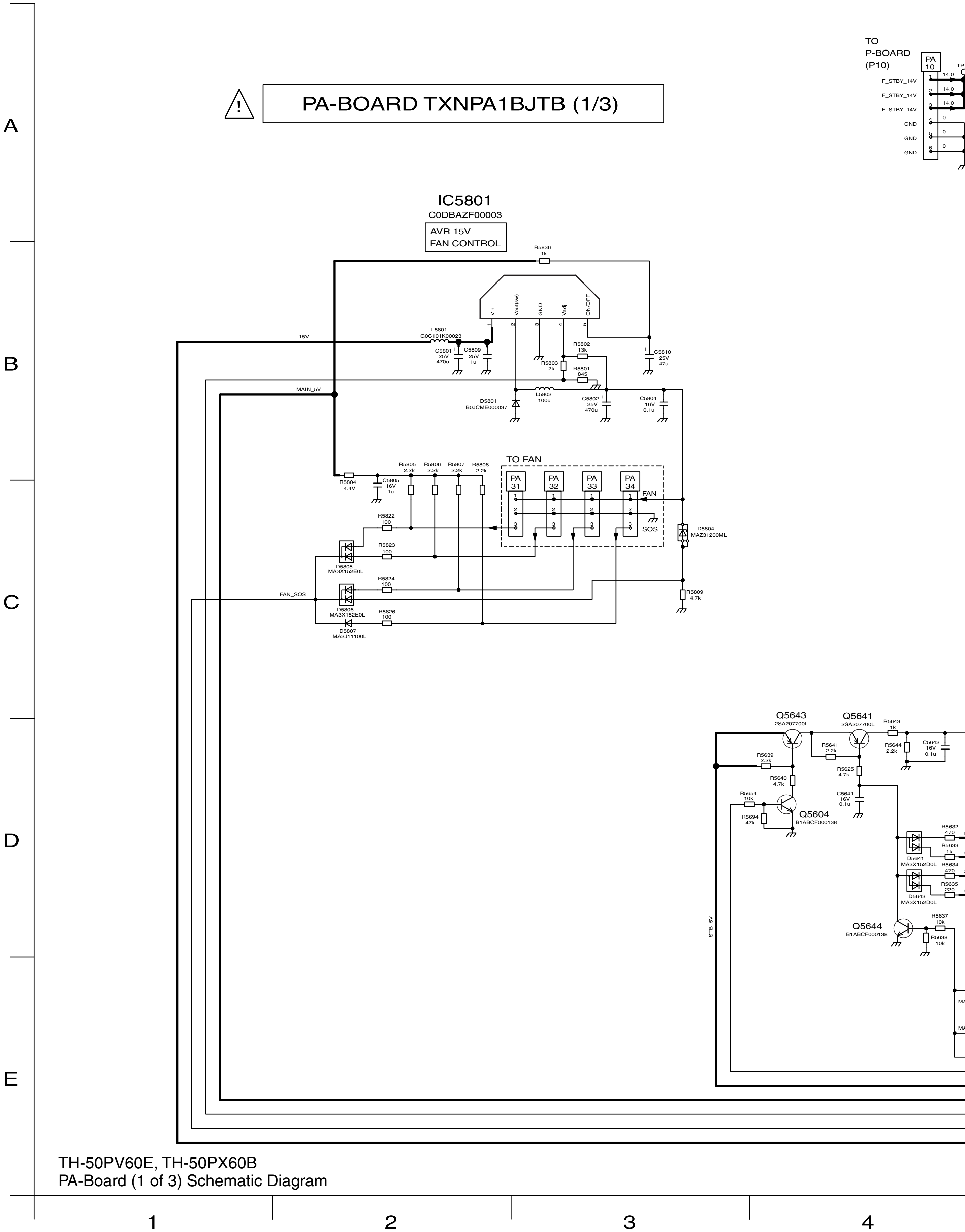

TO P10
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
TP16
IC5601
AVR 5V/9V
ON/OFF1
VOUT1
VIN
ON/OFF2
VOUT2
SUB9V/
MAIN9V
SUB5V/MAIN5V
Q5603
ON/OFF
Q5605
Q5613
SUB9V(2.2A)
Q5601
MAIN_9V(0.4A)
ON/OFF
Q5602
Q5643
Q5641
Q5604
ON/OFF
Q5642
NR14V
SUB_3.3V
D5641
D5649
MAIN_1.8V
SUB_9V-1
SUB_5V
D5643
MAIN_9V
MAIN_5V
D5647
D5635
D5642
D5644
D5639
D5634
Q5644
D5637
D5640
D5638
STB5V1
IC5801
AVR 15V
FAN CONTROL
Vin
Vadj
ON/OFF
Vout
(sw)
PA31
FAN
SOS
D5805
PA32
FAN
SOS
D5804
PA33
FAN
SOS
D5806
PA34
FAN
SOS
D5807
FAN SOS
LED BLINKING : 11TIMES
IC2304
OP AMP
Q2306
Q2302
Q2307
Q2303
IC2306
OP AMP
MAIN9V

TH-50PV60E, TH-50PX60B
PA-Board Block Diagram

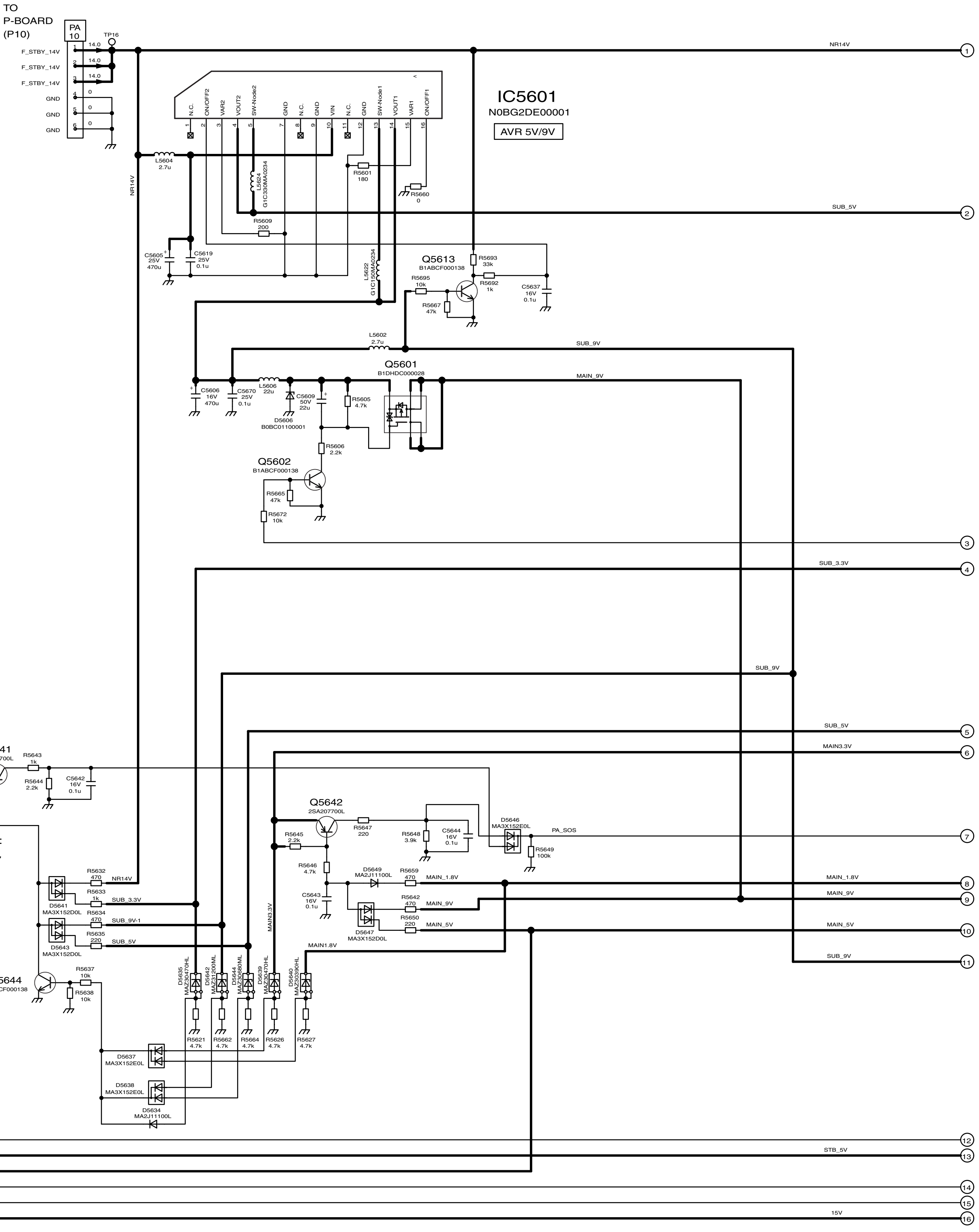

IC5602
AVR 1.8V/3.3V
Q5610
15 ON/OFF1
VOUT1 13
9 VIN
1 ON/OFF2
VOUT2 3
MAIN3.3V(2.5A)
MAIN1.8V(1.2A)
Q5603
MAIN5V
ON/OFF
Q5605
IC5604
AVR 3.3V
1 VIN
VOUT 5
SUB9V(2.2A)
AIN_9V(0.4A)
SUB9V(1.7A)
MAIN_9V(0.1A)
SUB5V(1.0A)
MAIN5V(0.37A)
MAIN3.3V(1.55A)
MAIN1.8V(1.2A)
TPS9
TPS9V
TPM9
TPM9V
TPS5
TPS5V
TPM5
TPM5V
TPM33
TPM33V
TPM18
TPM18V
TUNER_MAIN_ON
TV_SUB_ON
SOS
D5646
PA SOS
LED BLINKING : 10TIMES
TP5616
TP5615
TP5617
SUB3.3V
TPS33
TPS33V
PA20
TO DG20
1 SUB9V
2 SUB9V
3 SUB9V
6 MAIN9V
8 SUB5V
9 SUB5V
12 MAIN5V
13 MAIN5V
18 MAIN3.3V
19 MAIN3.3V
20 MAIN3.3V
23 MAIN1.8V
24 MAIN1.8V
32 TUNER_MAIN_ON
33 TUNER_SUB_ON
34 PA_SOS
35 SOUND_SOS
16 FAN_CONT
17 FAN_SOS
37 SL
39 SR
STB5V1
PA40
TO H40
1 STB5V
3 SUB9V
5 MAIN9V
7 SUB5VA
9 SUB5VA
11 SUB3.3V
13 MAIN3.3V
15 AMUTE
MAIN9V
Q2300
SOUND SOS
LED BLINKING : 12TIMES
PA5
TO P5
1 +15V
2 +15V
6 +15V
7 +15V
8 +15V
D2309
IC2302
SPEAKER AMP
306
Q2302
307
Q2303
3 RINP
5 LINP
26 PVCCL
27 PVCCL
34 PVCCR
35 PVCCR
44 SHUTDOWN
46 FAULT
AVCC 48
LOUTP 19
LOUTP 20
LOUTN 21
LOUTN 22
ROUTN 39
ROUTN 40
ROUTP 41
ROUTP 42
PA2
TO SPEAKER
(W-R & W-L)
5 W_L-
4 W_L+
2 W_R-
1 W_R+
AIN9V
Q2301
PA
DC-DC CONVERTER
SPEAKER OUT/AUDIO AMP
FAN CONTROL

TH-50PV60E, TH-50PX60B
PA-Board Block Diagram

14.7. PA-Board (1 of 3) Schematic Diagram

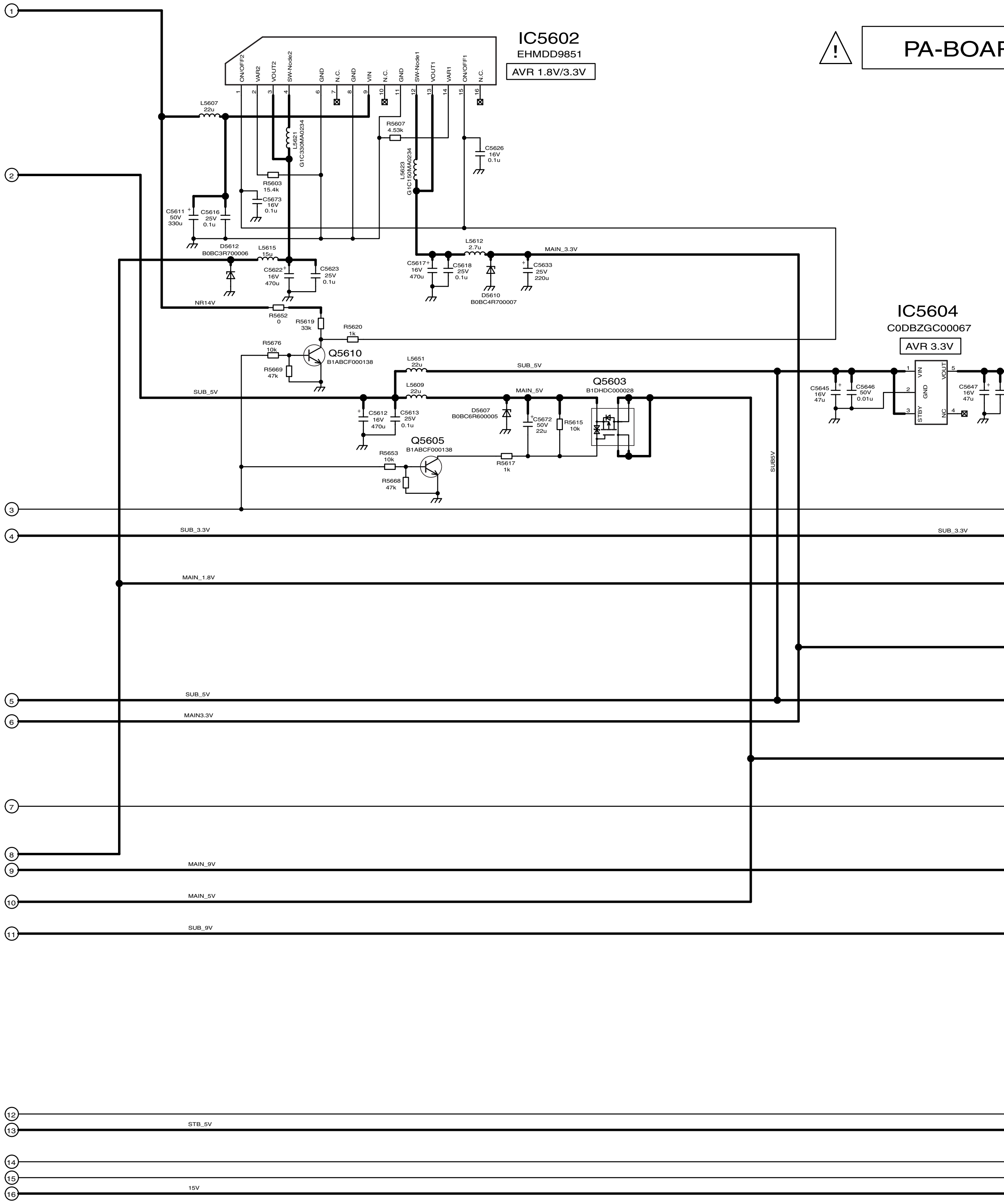

A
B
C
D
E
1
2
3
4
PA-BOARD TXNPA1BJTB (1/3)
TO
P-BOARD
(P10)
PA
10
TP
F_STBY_14V
F_STBY_14V
F_STBY_14V
GND
GND
GND
14.0
14.0
14.0
0
0
0
IC5801
C0DBAZF00003
AVR 15V
FAN CONTROL
R5836
1k
Vin
Vout(sw)
GND
Vadj
ON/OFF
1
2
3
4
5
15V
L5801
G0C101K00023
C5801
25V
470u
C5809
25V
1u
R5802
13k
R5803
2k
R5801
845
C5810
25V
47u
MAIN_5V
D5801
B0JCME000037
L5802
100u
C5802
25V
470u
C5804
16V
0.1u
TO FAN
R5805
2.2k
R5806
2.2k
R5807
2.2k
R5808
2.2k
R5804
4.4V
C5805
16V
1u
PA
31
PA
32
PA
33
PA
34
FAN
SOS
D5804
MAZ31200ML
R5822
100
R5823
100
D5805
MA3X152E0L
R5824
100
FAN_SOS
D5806
MA3X152E0L
R5826
100
D5807
MA2J11100L
R5809
4.7k
Q5643
2SA207700L
Q5641
2SA207700L
R5643
1k
R5641
2.2k
R5644
2.2k
C5642
16V
0.1u
R5639
2.2k
R5625
4.7k
R5640
4.7k
C5641
16V
0.1u
R5654
10k
R5694
47k
Q5604
B1ABCF000138
R5632
470
R5633
1k
D5641
MA3X152D0L
R5634
470
R5635
220
D5643
MA3X152D0L
R5637
10k
Q5644
B1ABCF000138
R5638
10k
STB_5V
MA
MA

TH-50PV60E, TH-50PX60B
PA-Board (1 of 3) Schematic Diagram

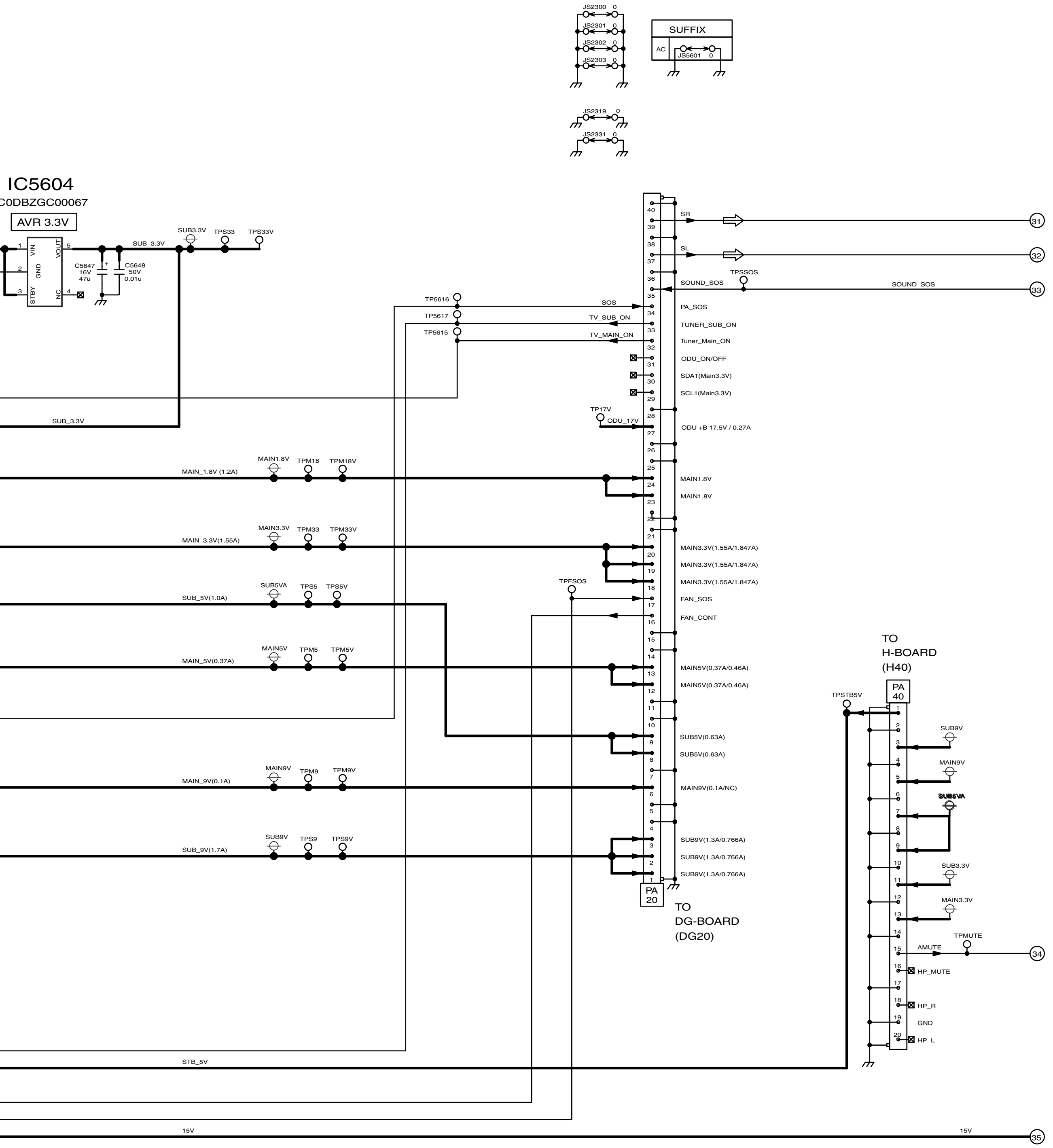

TO
P-BOARD
(P10)
PA
10
TP16
F_STBY_14V
F_STBY_14V
F_STBY_14V
GND
GND
GND
14.0
14.0
14.0
0
0
0
IC5601
N0BG2DE00001
AVR 5V/9V
N.C.
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
GND
VIN
N.C.
GND
SW-Node1
VOUT1
VAR1
ON/OFF1
L5604
2.7u
L5624
G1C330MA0234
R5601
180
R5660
0
R5609
200
C5605
25V
470u
C5619
25V
0.1u
NR14V
L5622
G1C150MA0234
Q5613
B1ABCF000138
R5693
33k
R5692
1k
R5695
10k
R5667
47k
C5637
16V
0.1u
L5602
2.7u
SUB_9V
Q5601
B1DHDC000028
MAIN_9V
C5606
16V
470u
C5670
25V
0.1u
L5606
22u
D5606
B0BC01100001
C5609
50V
22u
R5605
4.7k
R5606
2.2k
Q5602
B1ABCF000138
R5665
47k
R5672
10k
NR14V
SUB_5V
SUB_3.3V
SUB_9V
SUB_5V
MAIN3.3V
R5643
1k
R5644
2.2k
C5642
16V
0.1u
Q5642
2SA207700L
R5647
220
R5645
2.2k
R5648
3.9k
C5644
16V
0.1u
D5646
MA3X152E0L
PA_SOS
R5649
100k
R5646
4.7k
D5649
MA2J11100L
R5659
470
MAIN_1.8V
C5643
16V
0.1u
R5642
470
MAIN_9V
D5647
MA3X152D0L
R5650
220
MAIN_5V
MAIN_1.8V
MAIN_9V
MAIN_5V
SUB_9V
MAIN1.8V
MAIN3.3V
R5632
470
NR14V
R5633
1k
SUB_3.3V
D5641
MA3X152D0L
R5634
470
SUB_9V-1
R5635
220
SUB_5V
D5643
MA3X152D0L
R5637
10k
R5638
10k
D5635
MAZ30470HL
D5642
MAZ31200ML
D5644
MAZ30680ML
D5639
MAZ30470HL
D5640
MAZ30390HL
R5621
4.7k
R5662
4.7k
R5664
4.7k
R5626
4.7k
R5627
4.7k
D5637
MA3X152E0L
D5638
MA3X152E0L
D5634
MA2J11100L
STB_5V
15V
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
4
5
6
7
8

TH-50PV60E, TH-50PX60B
PA-Board (1 of 3) Schematic Diagram

14.8. PA-Board (2 of 3) Schematic Diagram

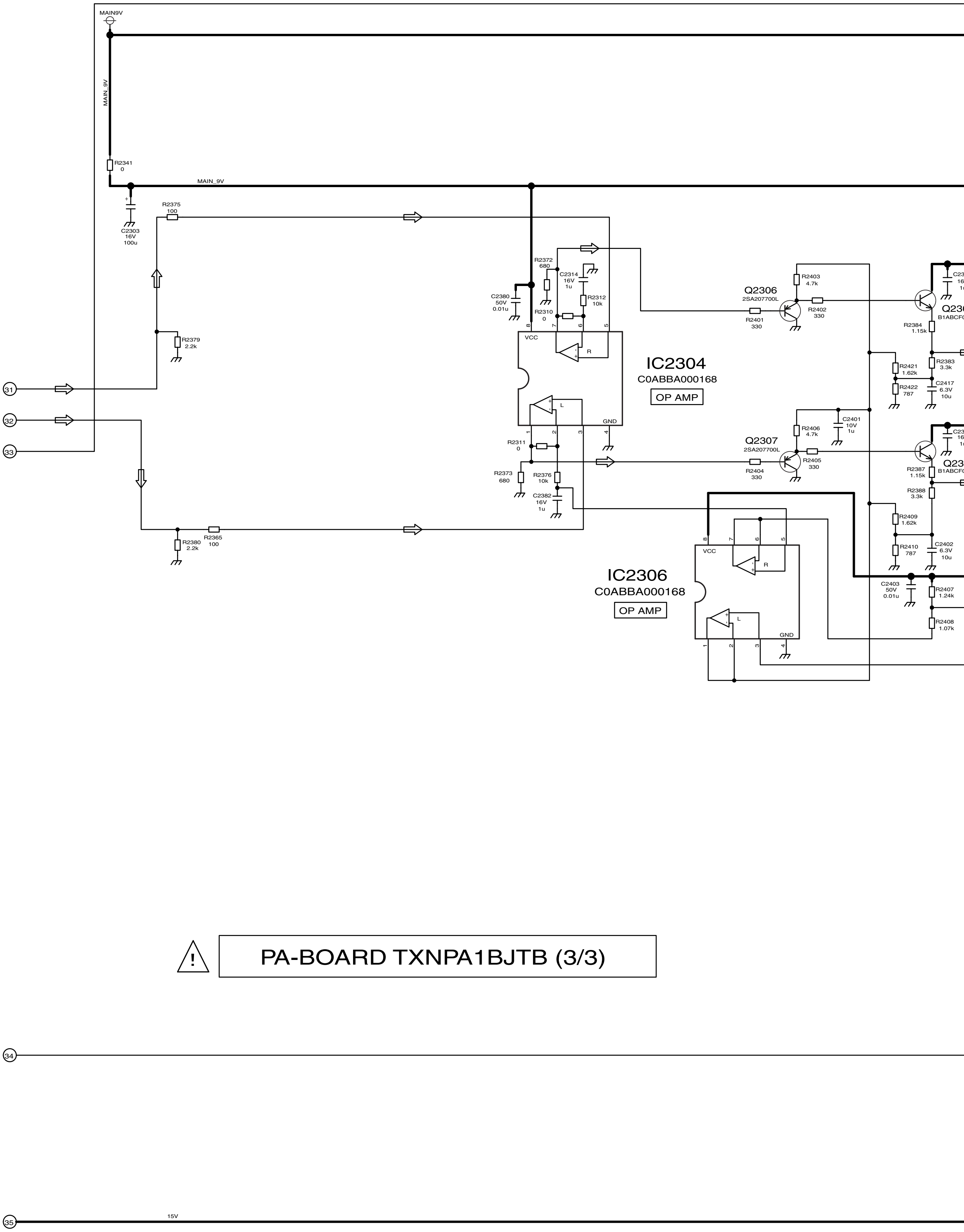

IC5602
EHMDD9851
AVR 1.8V/3.3V
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
GND
VIN
N.C.
GND
SW-Node1
VOUT1
VAR1
ON/OFF1
N.C.
1
2
3
4
6
7
8
9
10
11
12
13
14
15
16
PA-BOAR
L5607
22u
L5621
G1C330MA0234
R5607
4.53k
C5626
16V
0.1u
L5623
G1C150MA0234
R5603
15.4k
C5673
16V
0.1u
C5611
50V
330u
C5616
25V
0.1u
D5612
B0BC3R700006
L5615
15u
C5622
16V
470u
C5623
25V
0.1u
C5617
16V
470u
C5618
25V
0.1u
L5612
2.7u
D5610
B0BC4R700007
C5633
25V
220u
MAIN_3.3V
NR14V
R5652
0
R5619
33k
R5620
1k
R5676
10k
Q5610
B1ABCF000138
R5669
47k
L5651
22u
SUB_5V
L5609
22u
MAIN_5V
Q5603
B1DHDC000028
SUB_5V
C5612
16V
470u
C5613
25V
0.1u
D5607
B0BC6R600005
C5672
50V
22u
R5615
10k
Q5605
B1ABCF000138
R5653
10k
R5668
47k
R5617
1k
SUB5V
IC5604
C0DBZGC00067
AVR 3.3V
VIN
GND
STBY
VOUT
NC
1
2
3
4
5
C5645
16V
47u
C5646
50V
0.01u
C5647
16V
47u
1
2
3
4
SUB_3.3V
SUB_3.3V
MAIN_1.8V
5
SUB_5V
6
MAIN3.3V
7
8
9
MAIN_9V
10
MAIN_5V
11
SUB_9V
12
13
STB_5V
14
15
16
15V

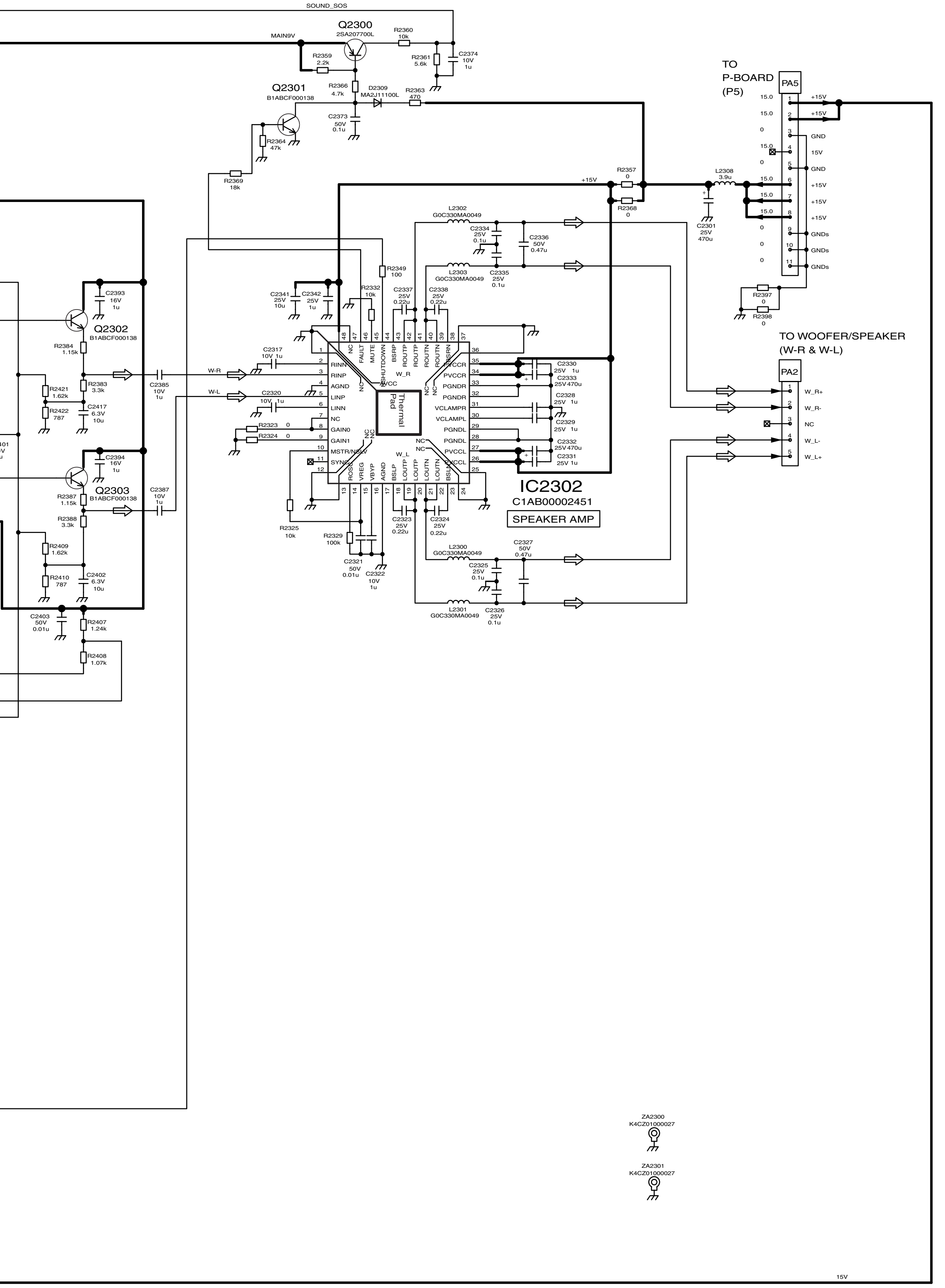
PA-BOARD TXNPA1BJTB (2/3)


JS2300 0
JS2301 0
JS2302 0
JS2303 0
SUFFIX
AC
JS5601 0
JS2319 0
JS2331 0
IC5604
C0DBZGC00067
AVR 3.3V
VIN
GND
STBY
VOUT
NC
C5647
16V
47u
C5648
50V
0.01u
SUB3.3V
TPS33
TPS33V
SUB_3.3V
TP5616
TP5617
TP5615
SOS
TV_SUB_ON
TV_MAIN_ON
TP17V
ODU_17V
MAIN1.8V
TPM18
TPM18V
MAIN_1.8V (1.2A)
MAIN3.3V
TPM33
TPM33V
MAIN_3.3V(1.55A)
SUB5VA
TPS5
TPS5V
SUB_5V(1.0A)
TPFSOS
MAIN5V
TPM5
TPM5V
MAIN_5V(0.37A)
MAIN9V
TPM9
TPM9V
MAIN_9V(0.1A)
SUB9V
TPS9
TPS9V
SUB_9V(1.7A)
STB_5V
15V
SR
SL
SOUND_SOS
TPSSOS
PA_SOS
TUNER_SUB_ON
Tuner_Main_ON
ODU_ON/OFF
SDA1(Main3.3V)
SCL1(Main3.3V)
ODU +B 17.5V / 0.27A
MAIN1.8V
MAIN1.8V
MAIN3.3V(1.55A/1.847A)
MAIN3.3V(1.55A/1.847A)
MAIN3.3V(1.55A/1.847A)
FAN_SOS
FAN_CONT
MAIN5V(0.37A/0.46A)
MAIN5V(0.37A/0.46A)
SUB5V(0.63A)
SUB5V(0.63A)
MAIN9V(0.1A/NC)
SUB9V(1.3A/0.766A)
SUB9V(1.3A/0.766A)
SUB9V(1.3A/0.766A)
PA
20
TO
DG-BOARD
(DG20)
31
32
33
34
35
TO
H-BOARD
(H40)
PA
40
TPSTB5V
SUB9V
MAIN9V
SUB5VA
SUB3.3V
MAIN3.3V
TPMUTE
AMUTE
HP_MUTE
HP_R
GND
HP_L

TH-50PV60E, TH-50PX60B
PA-Board (2 of 3) Schematic Diagram

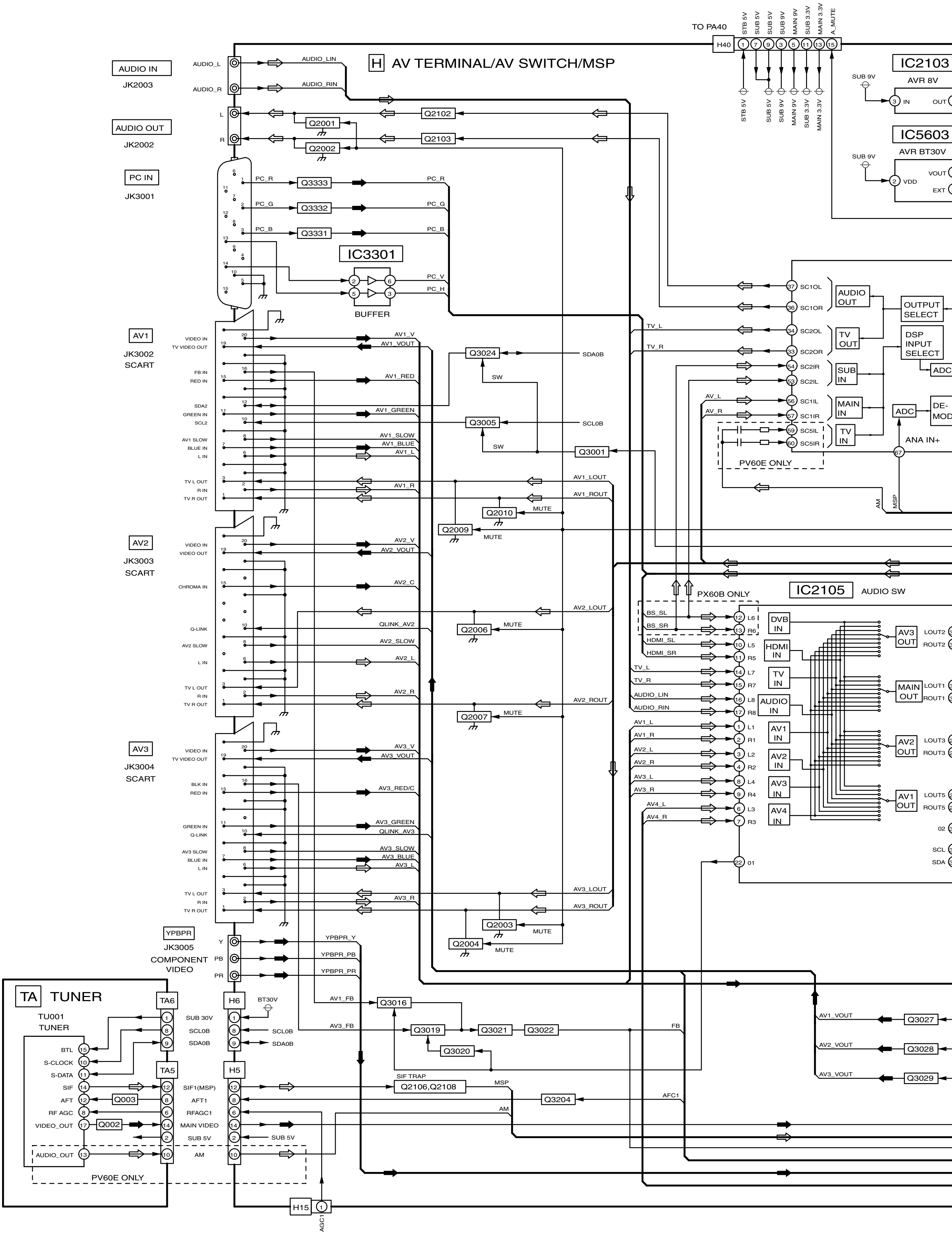
14.9. PA-Board (3 of 3) Schematic Diagram


MAIN9V
MAIN_9V
R2341
0
MAIN_9V
C2303
16V
100u
R2375
100
R2379
2.2k
31
32
33
R2380
2.2k
R2365
100
C2380
50V
0.01u
R2372
680
C2314
16V
1u
R2312
10k
R2310
0
VCC
R
L
GND
IC2304
C0ABBA000168
OP AMP
R2311
0
R2373
680
R2376
10k
C2382
16V
1u
Q2306
2SA207700L
R2401
330
R2402
330
R2403
4.7k
Q2307
2SA207700L
R2404
330
R2405
330
R2406
4.7k
C2401
10V
1u
R2384
1.15k
R2383
3.3k
R2421
1.62k
R2422
787
C2417
6.3V
10u
R2387
1.15k
R2388
3.3k
R2409
1.62k
R2410
787
C2402
6.3V
10u
C2403
50V
0.01u
R2407
1.24k
R2408
1.07k
B1ABCF
IC2306
C0ABBA000168
OP AMP
VCC
R
L
GND
PA-BOARD TXNPA1BJTB (3/3)
34
35
15V

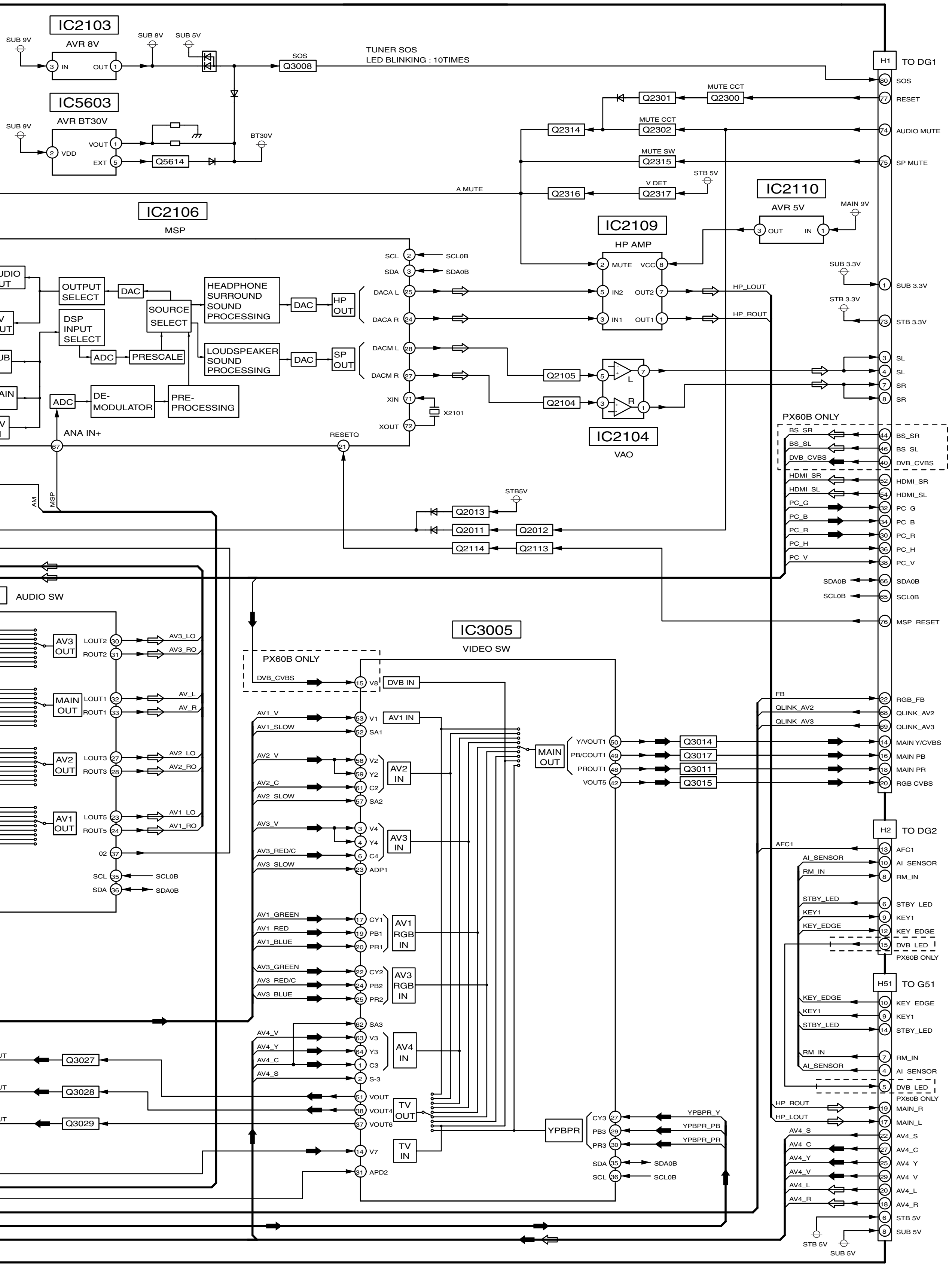

SOUND_SOS
MAIN9V
Q2300
2SA207700L
R2360
10k
R2359
2.2k
R2361
5.6k
C2374
10V
1u
Q2301
B1ABCF000138
R2366
4.7k
D2309
MA2J11100L
R2363
470
C2373
50V
0.1u
R2364
47k
R2369
18k
TO
P-BOARD
(P5)
PA5
15.0
0
+15V
GND
15V
GNDs
L2308
3.9u
R2357
0
R2368
0
C2301
25V
470u
R2397
0
R2398
0
TO WOOFER/SPEAKER
(W-R & W-L)
PA2
W_R+
W_R-
NC
W_L-
W_L+
L2302
G0C330MA0049
C2334
25V
0.1u
C2336
50V
0.47u
L2303
G0C330MA0049
C2335
25V
0.1u
R2349
100
R2332
10k
C2337
25V
0.22u
C2338
25V
0.22u
C2341
25V
10u
C2342
25V
1u
C2393
16V
1u
Q2302
B1ABCF000138
R2384
1.15k
R2421
1.62k
R2422
787
R2383
3.3k
C2417
6.3V
10u
C2385
10V
1u
W-R
W-L
C2317
10V 1u
C2320
10V 1u
R2323 0
R2324 0
C2394
16V
1u
Q2303
B1ABCF000138
R2387
1.15k
C2387
10V
1u
R2388
3.3k
R2409
1.62k
R2410
787
C2402
6.3V
10u
C2403
50V
0.01u
R2407
1.24k
R2408
1.07k
Thermal Pad
RINN
RINP
AGND
LINP
LINN
NC
GAIN0
GAIN1
MSTR/NSLV
SYNC
ROSC
VREG
VBYP
AGND
BSLP
LOUTP
LOUTN
BSLN
NC
FAULT
MUTE
SHUTDOWN
BSRP
ROUTP
ROUTN
BSRN
AVCC
W_R
W_L
PVCCR
PGNDR
VCLAMPR
VCLAMPL
PGNDL
PVCCL
C2330
25V 1u
C2333
25V 470u
C2328
25V 1u
C2329
25V 1u
C2332
25V 470u
C2331
25V 1u
IC2302
C1AB00002451
SPEAKER AMP
R2325
10k
R2329
100k
C2321
50V
0.01u
C2322
10V
1u
C2323
25V
0.22u
C2324
25V
0.22u
L2300
G0C330MA0049
C2327
50V
0.47u
C2325
25V
0.1u
L2301
G0C330MA0049
C2326
25V
0.1u
ZA2300
K4CZ01000027
ZA2301
K4CZ01000027
15V

TH-50PV60E, TH-50PX60B
PA-Board (3 of 3) Schematic Diagram

14.10. H and TA-Board Block Diagram

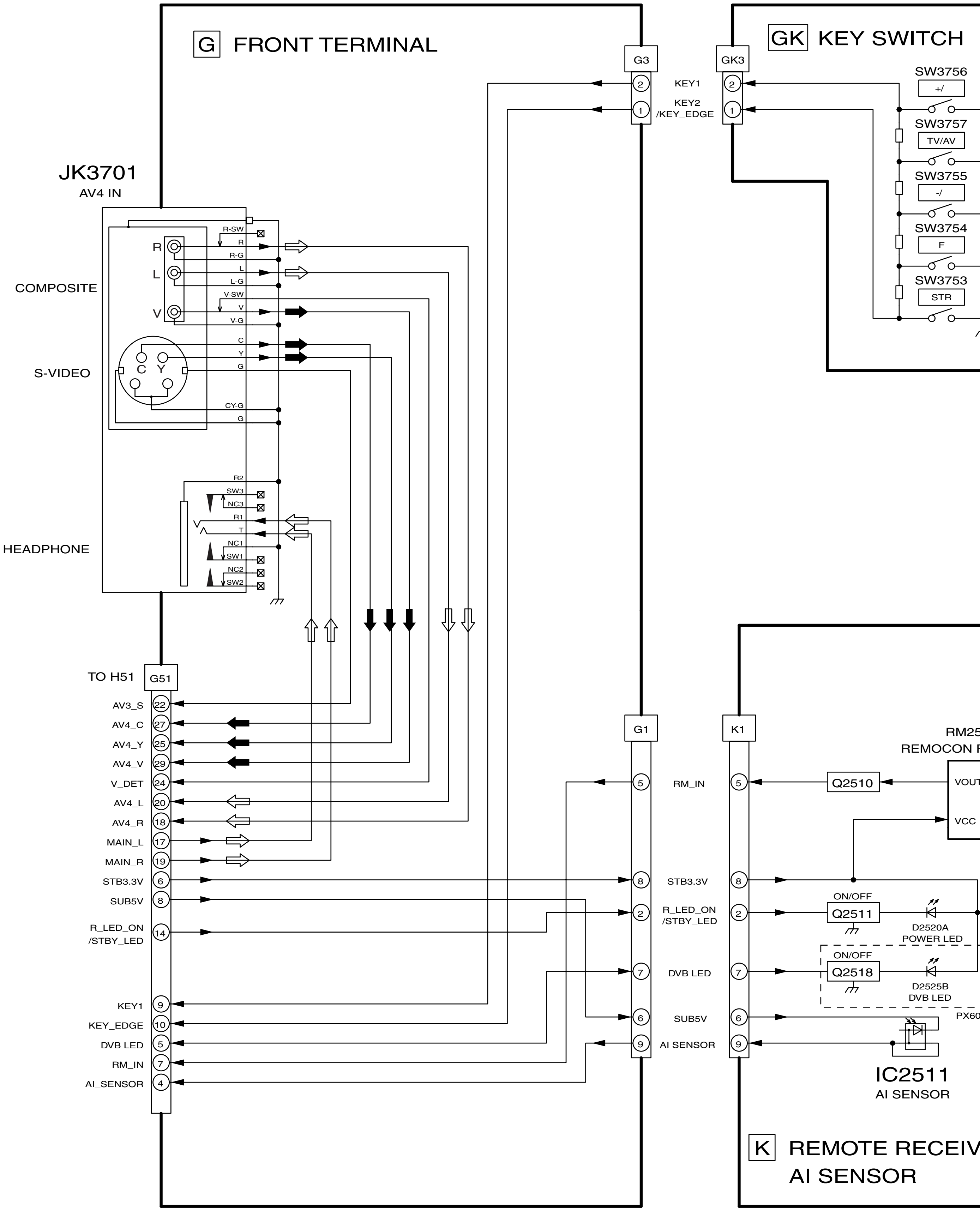

H AV TERMINAL/AV SWITCH/MSP
TO PA40
H40
STB 5V
SUB 5V
SUB 9V
MAIN 9V
SUB 3.3V
MAIN 3.3V
A_MUTE
IC2103
AVR 8V
IC5603
AVR BT30V
SUB 9V
IN
OUT
VDD
VOUT
EXT
AUDIO IN
JK2003
AUDIO_L
AUDIO_R
AUDIO_LIN
AUDIO_RIN
AUDIO OUT
JK2002
Q2001
Q2002
Q2102
Q2103
PC IN
JK3001
PC_R
PC_G
PC_B
PC_V
PC_H
Q3333
Q3332
Q3331
IC3301
BUFFER
AV1
JK3002
SCART
VIDEO IN
TV VIDEO OUT
FB IN
RED IN
SDA2
GREEN IN
SCL2
AV1 SLOW
BLUE IN
L IN
TV L OUT
R IN
TV R OUT
AV1_V
AV1_VOUT
AV1_RED
AV1_GREEN
AV1_SLOW
AV1_BLUE
AV1_L
AV1_R
AV1_LOUT
AV1_ROUT
Q3024
SDA0B
Q3005
SCL0B
SW
Q3001
Q2010
Q2009
MUTE
AV2
JK3003
SCART
VIDEO OUT
CHROMA IN
Q-LINK
AV2 SLOW
AV2_V
AV2_VOUT
AV2_C
QLINK_AV2
AV2_SLOW
AV2_L
AV2_R
AV2_LOUT
AV2_ROUT
Q2006
Q2007
AV3
JK3004
SCART
BLK IN
AV3 SLOW
AV3_V
AV3_VOUT
AV3_RED/C
AV3_GREEN
QLINK_AV3
AV3_SLOW
AV3_BLUE
AV3_L
AV3_R
AV3_LOUT
AV3_ROUT
Q2003
Q2004
YPBPR
JK3005
COMPONENT VIDEO
Y
PB
PR
YPBPR_Y
YPBPR_PB
YPBPR_PR
AV1_FB
AV3_FB
Q3016
Q3019
Q3020
Q3021
Q3022
FB
SIF TRAP
Q2106,Q2108
MSP
Q3204
AFC1
AM
BT30V
TA TUNER
TU001
TUNER
BTL
S-CLOCK
S-DATA
SIF
AFT
RF AGC
VIDEO_OUT
AUDIO_OUT
Q003
Q002
TA6
TA5
H6
H5
SUB 30V
SCL0B
SDA0B
SIF1(MSP)
AFT1
RFAGC1
MAIN VIDEO
SUB 5V
PV60E ONLY
H15
AGC1
SC1OL
SC1OR
SC2OL
SC2OR
SC2IR
SC2IL
SC1IL
SC1IR
SC5IL
SC5IR
AUDIO OUT
TV OUT
SUB IN
MAIN IN
TV IN
OUTPUT SELECT
DSP INPUT SELECT
ADC
DE-MOD
ANA IN+
TV_L
TV_R
AV_L
AV_R
PV60E ONLY
AM
MSP
PX60B ONLY
IC2105
AUDIO SW
BS_SL
BS_SR
HDMI_SL
HDMI_SR
TV_L
TV_R
AUDIO_LIN
AUDIO_RIN
AV1_L
AV1_R
AV2_L
AV2_R
AV3_L
AV3_R
AV4_L
AV4_R
L6
R6
L5
R5
L7
R7
L8
R8
L1
R1
L2
R2
L4
R4
L3
R3
01
02
DVB IN
HDMI IN
TV IN
AUDIO IN
AV1 IN
AV2 IN
AV3 IN
AV4 IN
AV3 OUT
MAIN OUT
AV2 OUT
AV1 OUT
LOUT2
ROUT2
LOUT1
ROUT1
LOUT3
ROUT3
LOUT5
ROUT5
SCL
SDA
AV1_VOUT
AV2_VOUT
AV3_VOUT
Q3027
Q3028
Q3029

TH-50PV60E, TH-50PX60B
H and TA-Board Block Diagram


IC2103
AVR 8V
SUB 9V
IN
OUT
SUB 8V
SUB 5V
SOS
Q3008
TUNER SOS
LED BLINKING : 10TIMES
IC5603
AVR BT30V
VDD
VOUT
EXT
Q5614
BT30V
A MUTE
IC2106
MSP
SCL
SDA
SCL0B
SDA0B
AUDIO OUT
OUTPUT SELECT
DAC
SOURCE SELECT
DSP INPUT SELECT
HEADPHONE SURROUND SOUND PROCESSING
HP OUT
LOUDSPEAKER SOUND PROCESSING
SP OUT
ADC
PRESCALE
DE-MODULATOR
PRE-PROCESSING
ANA IN+
DACA L
DACA R
DACM L
DACM R
XIN
XOUT
X2101
RESETQ
AM
MSP
MUTE CCT
Q2301
Q2300
Q2314
Q2302
MUTE SW
Q2315
V DET
Q2316
Q2317
STB 5V
IC2110
AVR 5V
MAIN 9V
IC2109
HP AMP
MUTE
VCC
IN2
OUT2
IN1
OUT1
HP_LOUT
HP_ROUT
SUB 3.3V
STB 3.3V
Q2105
Q2104
IC2104
VAO
L
R
STB5V
Q2013
Q2011
Q2012
Q2114
Q2113
PX60B ONLY
BS_SR
BS_SL
DVB_CVBS
HDMI_SR
HDMI_SL
PC_G
PC_B
PC_R
PC_H
PC_V
H1
TO DG1
SOS
RESET
AUDIO MUTE
SP MUTE
SUB 3.3V
STB 3.3V
SL
SR
SDA0B
SCL0B
MSP_RESET
AUDIO SW
AV3 OUT
LOUT2
ROUT2
AV3_LO
AV3_RO
MAIN OUT
LOUT1
ROUT1
AV_L
AV_R
AV2 OUT
LOUT3
ROUT3
AV2_LO
AV2_RO
AV1 OUT
LOUT5
ROUT5
AV1_LO
AV1_RO
02
SCL
SDA
IC3005
VIDEO SW
PX60B ONLY
DVB_CVBS
V8
DVB IN
AV1_V
AV1_SLOW
V1
SA1
AV1 IN
AV2_V
AV2_C
AV2_SLOW
V2
Y2
C2
SA2
AV2 IN
AV3_V
AV3_RED/C
AV3_SLOW
V4
Y4
C4
ADP1
AV3 IN
AV1_GREEN
AV1_RED
AV1_BLUE
CY1
PB1
PR1
AV1 RGB IN
AV3_GREEN
AV3_RED/C
AV3_BLUE
CY2
PB2
PR2
AV3 RGB IN
AV4_V
AV4_Y
AV4_C
AV4_S
SA3
V3
Y3
C3
S-3
AV4 IN
VOUT
VOUT4
VOUT6
TV OUT
V7
APD2
TV IN
Q3027
Q3028
Q3029
MAIN OUT
Y/VOUT1
PB/COUT1
PROUT1
VOUT5
Q3014
Q3017
Q3011
Q3015
YPBPR
CY3
PB3
PR3
YPBPR_Y
YPBPR_PB
YPBPR_PR
SDA0B
SCL0B
FB
QLINK_AV2
QLINK_AV3
RGB_FB
MAIN Y/CVBS
MAIN PB
MAIN PR
RGB CVBS
H2
TO DG2
AFC1
AI_SENSOR
RM_IN
STBY_LED
KEY1
KEY_EDGE
DVB_LED
PX60B ONLY
H51
TO G51
HP_ROUT
HP_LOUT
MAIN_R
MAIN_L
AV4_S
AV4_C
AV4_Y
AV4_V
AV4_L
AV4_R
STB 5V
SUB 5V

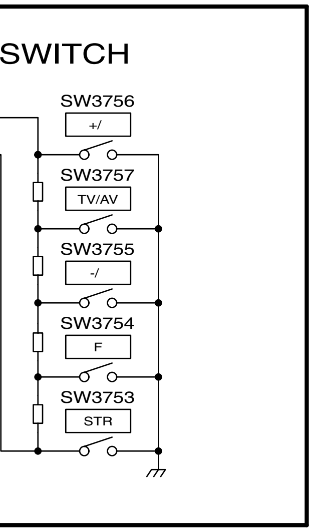
TH-50PV60E, TH-50PX60B
H and TA-Board Block Diagram

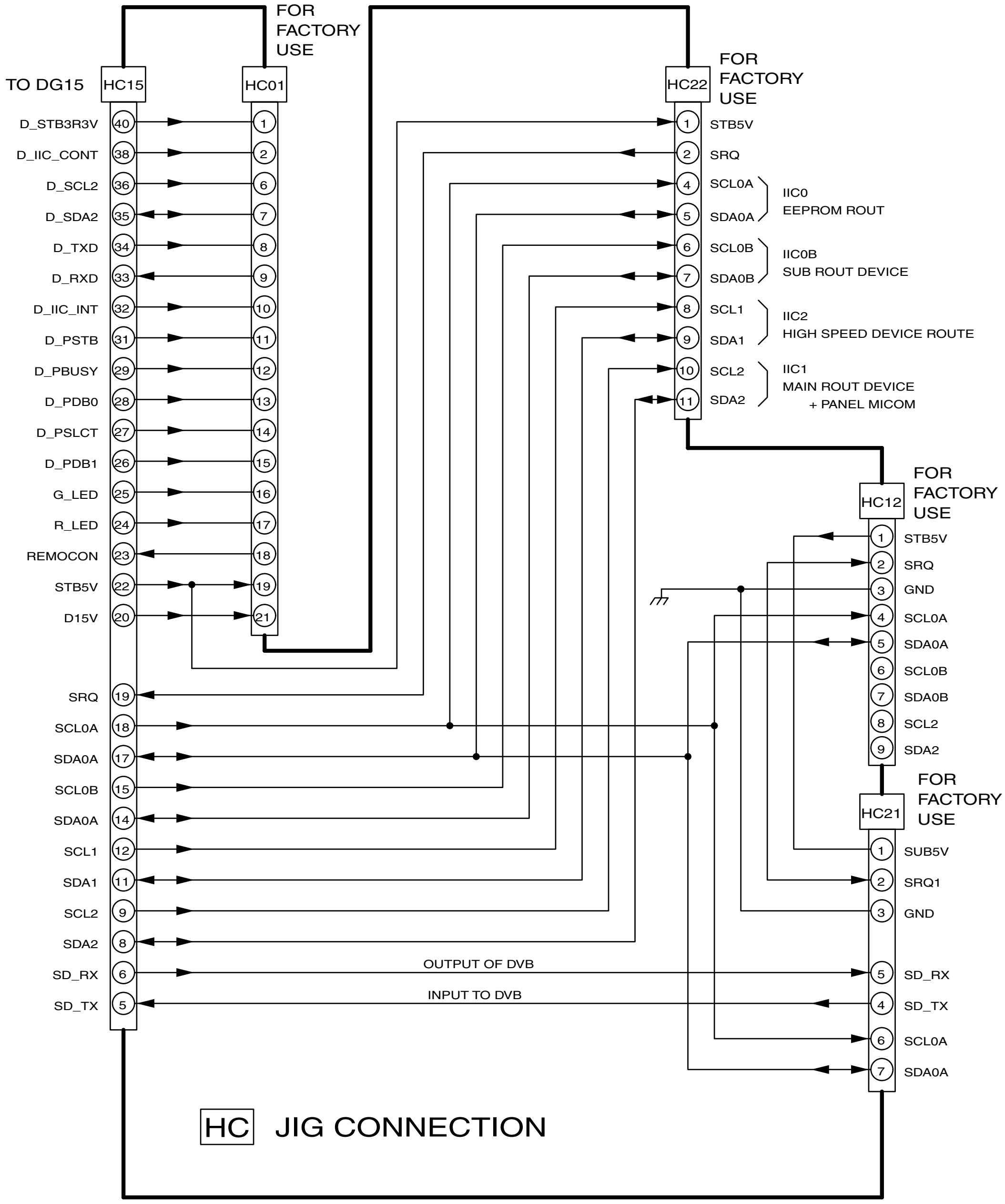
14.11. G, GK, GS, HC and K-Board Block Diagram

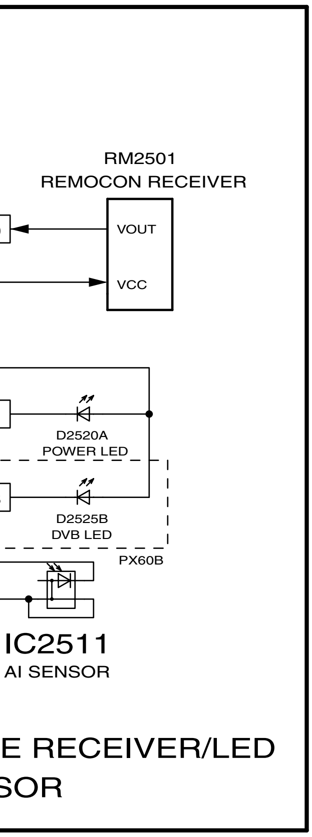


G FRONT TERMINAL
GK KEY SWITCH
G3
GK3
KEY1
KEY2
/KEY_EDGE
SW3756
+/
SW3757
TV/AV
SW3755
-/
SW3754
F
SW3753
STR
JK3701
AV4 IN
COMPOSITE
R
L
V
S-VIDEO
C
Y
HEADPHONE
R-SW
R-G
L-G
V-SW
V-G
G
CY-G
R2
SW3
NC3
R1
T
NC1
SW1
NC2
SW2
TO H51
G51
AV3_S
AV4_C
AV4_Y
AV4_V
V_DET
AV4_L
AV4_R
MAIN_L
MAIN_R
STB3.3V
SUB5V
R_LED_ON
/STBY_LED
KEY1
KEY_EDGE
DVB LED
RM_IN
AI_SENSOR
G1
K1
RM_IN
STB3.3V
R_LED_ON
/STBY_LED
DVB LED
SUB5V
AI SENSOR
RM25
REMOCON
VOUT
VCC
Q2510
ON/OFF
Q2511
D2520A
POWER LED
ON/OFF
Q2518
D2525B
DVB LED
PX60
IC2511
AI SENSOR
K REMOTE RECEIV
AI SENSOR

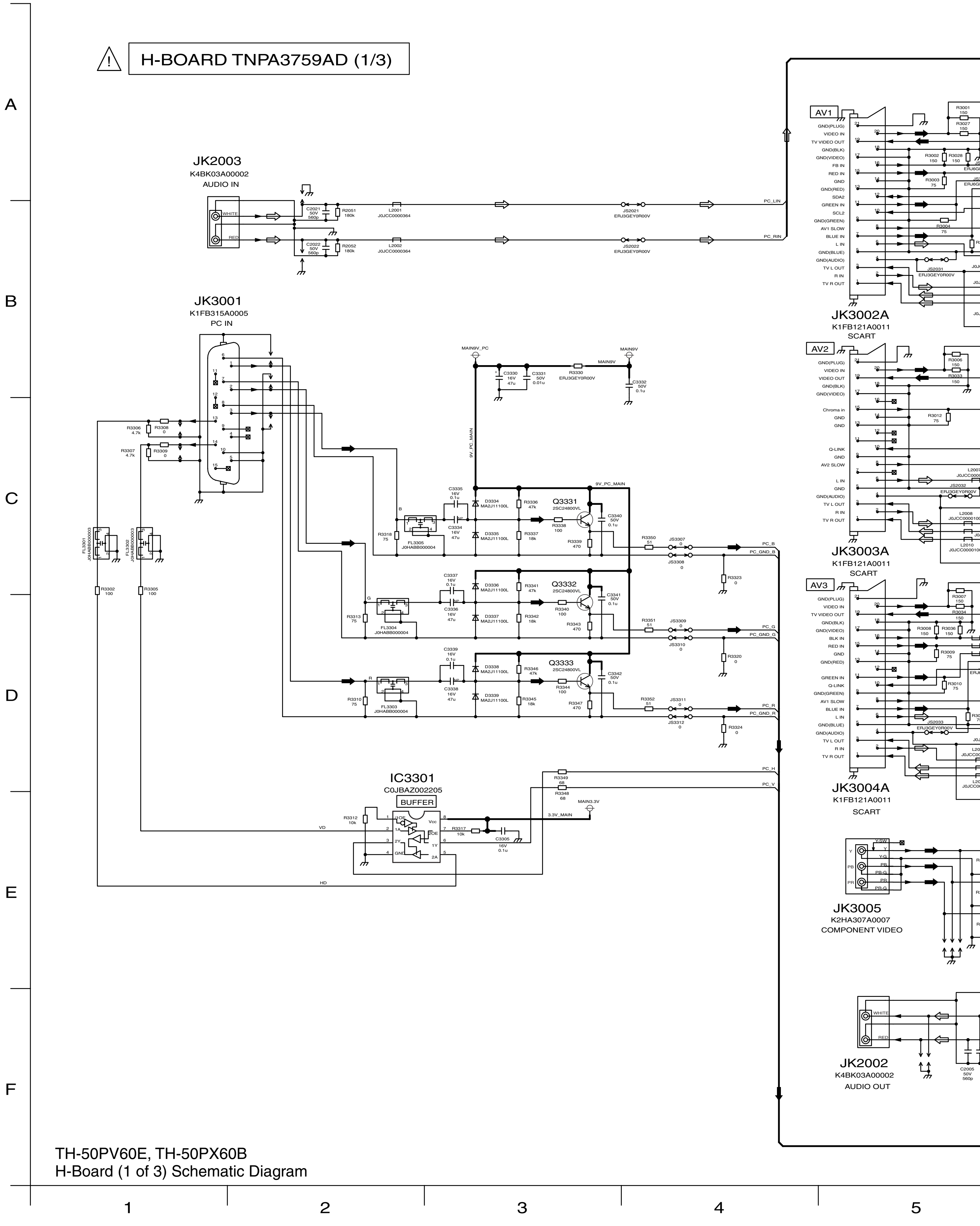
TH-50PV60E, TH-50PX60B
G, GK, HC and K-Board Block Diagram


SWITCH
SW3756
+/
SW3757
TV/AV
SW3755
-/
SW3754
F
SW3753
STR


TO DG15
HC15
HC01
FOR FACTORY USE
HC22
FOR FACTORY USE
D_STB3R3V 40
D_IIC_CONT 38
D_SCL2 36
D_SDA2 35
D_TXD 34
D_RXD 33
D_IIC_INT 32
D_PSTB 31
D_PBUSY 29
D_PDB0 28
D_PSLCT 27
D_PDB1 26
G_LED 25
R_LED 24
REMOCON 23
STB5V 22
D15V 20
SRQ 19
SCL0A 18
SDA0A 17
SCL0B 15
SDA0A 14
SCL1 12
SDA1 11
SCL2 9
SDA2 8
SD_RX 6
SD_TX 5
1 2 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21
1 STB5V
2 SRQ
4 SCL0A
5 SDA0A
IIC0
EEPROM ROUT
6 SCL0B
7 SDA0B
IIC0B
SUB ROUT DEVICE
8 SCL1
9 SDA1
IIC2
HIGH SPEED DEVICE ROUTE
10 SCL2
11 SDA2
IIC1
MAIN ROUT DEVICE
+ PANEL MICOM
HC12
FOR FACTORY USE
1 STB5V
2 SRQ
3 GND
4 SCL0A
5 SDA0A
6 SCL0B
7 SDA0B
8 SCL2
9 SDA2
HC21
FOR FACTORY USE
1 SUB5V
2 SRQ1
3 GND
5 SD_RX
4 SD_TX
6 SCL0A
7 SDA0A
OUTPUT OF DVB
INPUT TO DVB
HC JIG CONNECTION

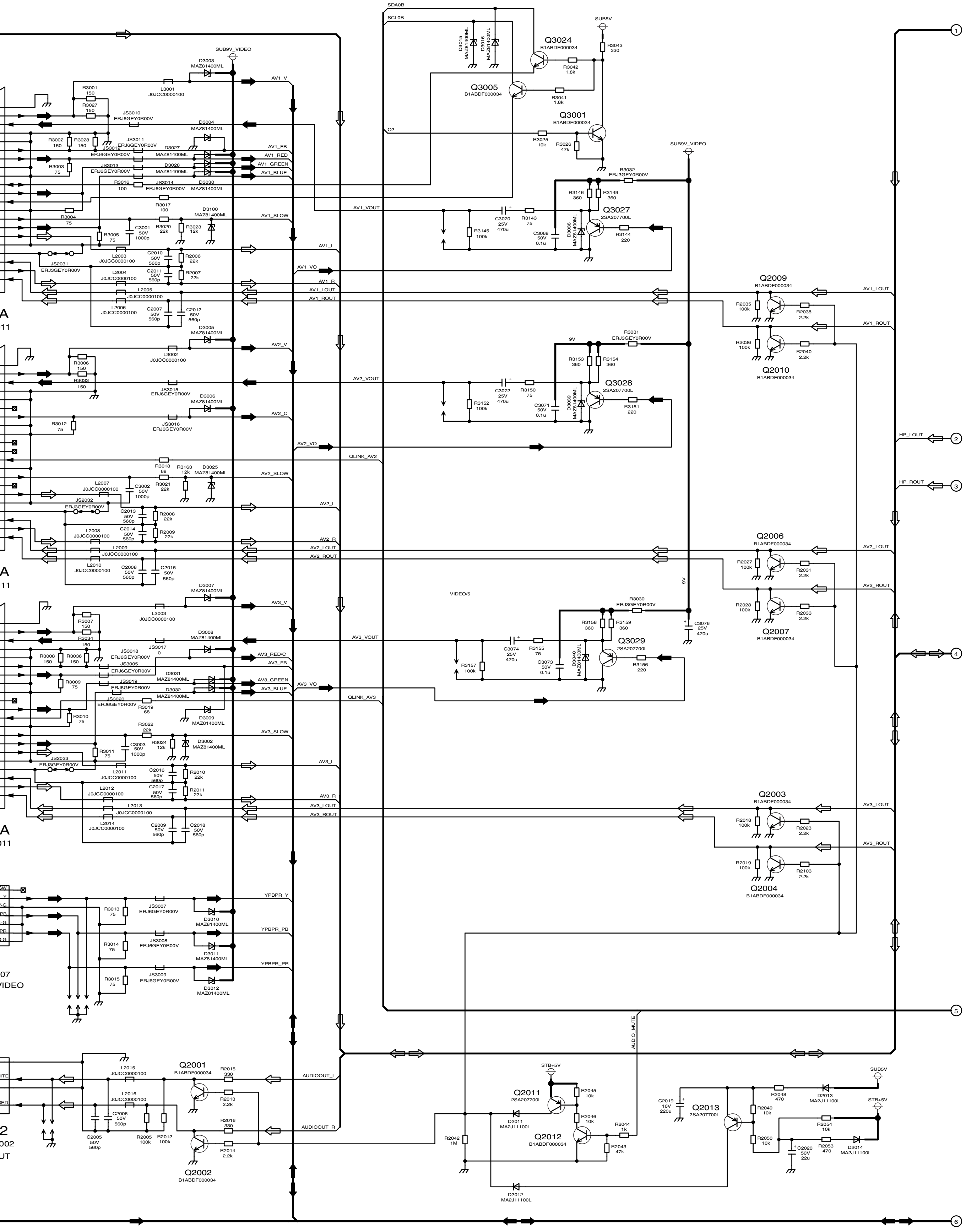

RM2501
REMOCON RECEIVER
VOUT
VCC
D2520A
POWER LED
D2525B
DVB LED
PX60B
IC2511
AI SENSOR
E RECEIVER/LED
SOR

14.12. H-Board (1 of 3)Schematic Diagram



A
B
C
D
E
F
1
2
3
4
5
H-BOARD TNPA3759AD (1/3)
JK2003
K4BK03A00002
AUDIO IN
WHITE
RED
C2021 50V 560p
R2051 180k
L2001 J0JCC0000364
JS2021 ERJ3GEY0R00V
PC_LIN
C2022 50V 560p
R2052 180k
L2002 J0JCC0000364
JS2022 ERJ3GEY0R00V
PC_RIN
JK3001
K1FB315A0005
PC IN
R3306 4.7k
R3308 0
R3307 4.7k
R3309 0
FL3301 J0HABB000003
FL3302 J0HABB000003
R3302 100
R3305 100
MAIN9V_PC
MAIN9V
C3330 16V 47u
C3331 50V 0.01u
R3330 ERJ3GEY0R00V
C3332 50V 0.1u
9V_PC_MAIN
C3335 16V 0.1u
C3334 16V 47u
D3334 MA2J11100L
D3335 MA2J11100L
R3336 47k
R3337 18k
Q3331 2SC24800VL
R3338 100
R3339 470
C3340 50V 0.1u
R3318 75
FL3305 J0HABB000004
R3350 51
JS3307 0
JS3308 0
PC_B
PC_GND_B
R3323 0
C3337 16V 0.1u
C3336 16V 47u
D3336 MA2J11100L
D3337 MA2J11100L
R3341 47k
R3342 18k
Q3332 2SC24800VL
R3340 100
R3343 470
C3341 50V 0.1u
R3313 75
FL3304 J0HABB000004
R3351 51
JS3309 0
JS3310 0
PC_G
PC_GND_G
R3320 0
C3339 16V 0.1u
C3338 16V 47u
D3338 MA2J11100L
D3339 MA2J11100L
R3346 47k
R3345 18k
Q3333 2SC24800VL
R3344 100
R3347 470
C3342 50V 0.1u
R3310 75
FL3303 J0HABB000004
R3352 51
JS3311 0
JS3312 0
PC_R
PC_GND_R
R3324 0
IC3301
C0JBAZ002205
BUFFER
R3312 10k
VD
HD
R3317 10k
C3305 16V 0.1u
3.3V_MAIN
MAIN3.3V
R3349 68
R3348 68
PC_H
PC_V
AV1
JK3002A
K1FB121A0011
SCART
AV2
JK3003A
K1FB121A0011
SCART
AV3
JK3004A
K1FB121A0011
SCART
GND(PLUG)
VIDEO IN
TV VIDEO OUT
GND(BLK)
GND(VIDEO)
FB IN
RED IN
GND
GND(RED)
SDA2
GREEN IN
SCL2
GND(GREEN)
AV1 SLOW
BLUE IN
L IN
GND(BLUE)
GND(AUDIO)
TV L OUT
R IN
TV R OUT
Chroma in
Q-LINK
AV2 SLOW
BLK IN
R3001 150
R3027 150
R3002 150
R3028 150
R3003 75
R3004 75
JS2031 ERJ3GEY0R00V
R3006 150
R3033 150
R3012 75
JS2032 ERJ3GEY0R00V
L2008 J0JCC0000100
L2010 J0JCC0000100
R3007 150
R3034 150
R3008 150
R3036 150
R3009 75
R3010 75
JS2033 ERJ3GEY0R00V
JK3005
K2HA307A0007
COMPONENT VIDEO
Y
PB
PR
JK2002
K4BK03A00002
AUDIO OUT
C2005 50V 560p

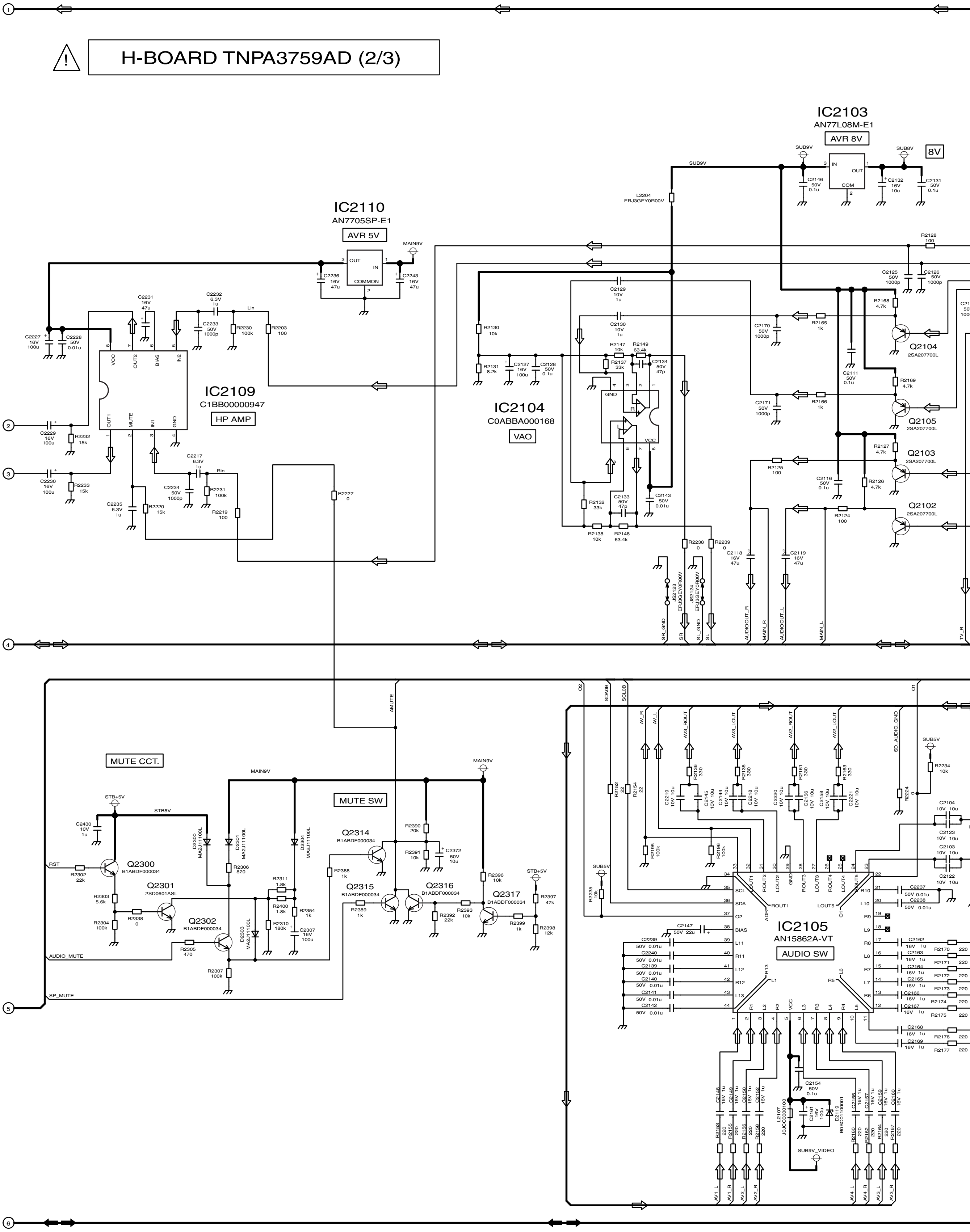
TH-50PV60E, TH-50PX60B
H-Board (1 of 3) Schematic Diagram


SDA0B
SCL0B
SUB5V
SUB9V_VIDEO
Q3024
B1ABDF000034
Q3005
Q3001
Q3027
2SA207700L
Q3028
Q3029
Q2009
Q2010
Q2006
Q2007
Q2003
Q2004
Q2001
Q2002
Q2011
Q2012
Q2013
O2
AV1_V
AV1_RED
AV1_FB
AV1_GREEN
AV1_BLUE
AV1_SLOW
AV1_VOUT
AV1_L
AV1_VO
AV1_R
AV1_LOUT
AV1_ROUT
AV2_V
AV2_VOUT
AV2_C
AV2_VO
QLINK_AV2
AV2_SLOW
AV2_L
AV2_R
AV2_LOUT
AV2_ROUT
AV3_V
AV3_VOUT
AV3_RED/C
AV3_FB
AV3_GREEN
AV3_VO
AV3_BLUE
QLINK_AV3
AV3_SLOW
AV3_L
AV3_R
AV3_LOUT
AV3_ROUT
VIDEO/5
9V
HP_LOUT
HP_ROUT
YPBPR_Y
YPBPR_PB
YPBPR_PR
AUDIO_MUTE
AUDIOOUT_L
AUDIOOUT_R
STB+5V
1
2
3
4
5
6

TH-50PV60E, TH-50PX60B H-Board (1 of 3) Schematic Diagram

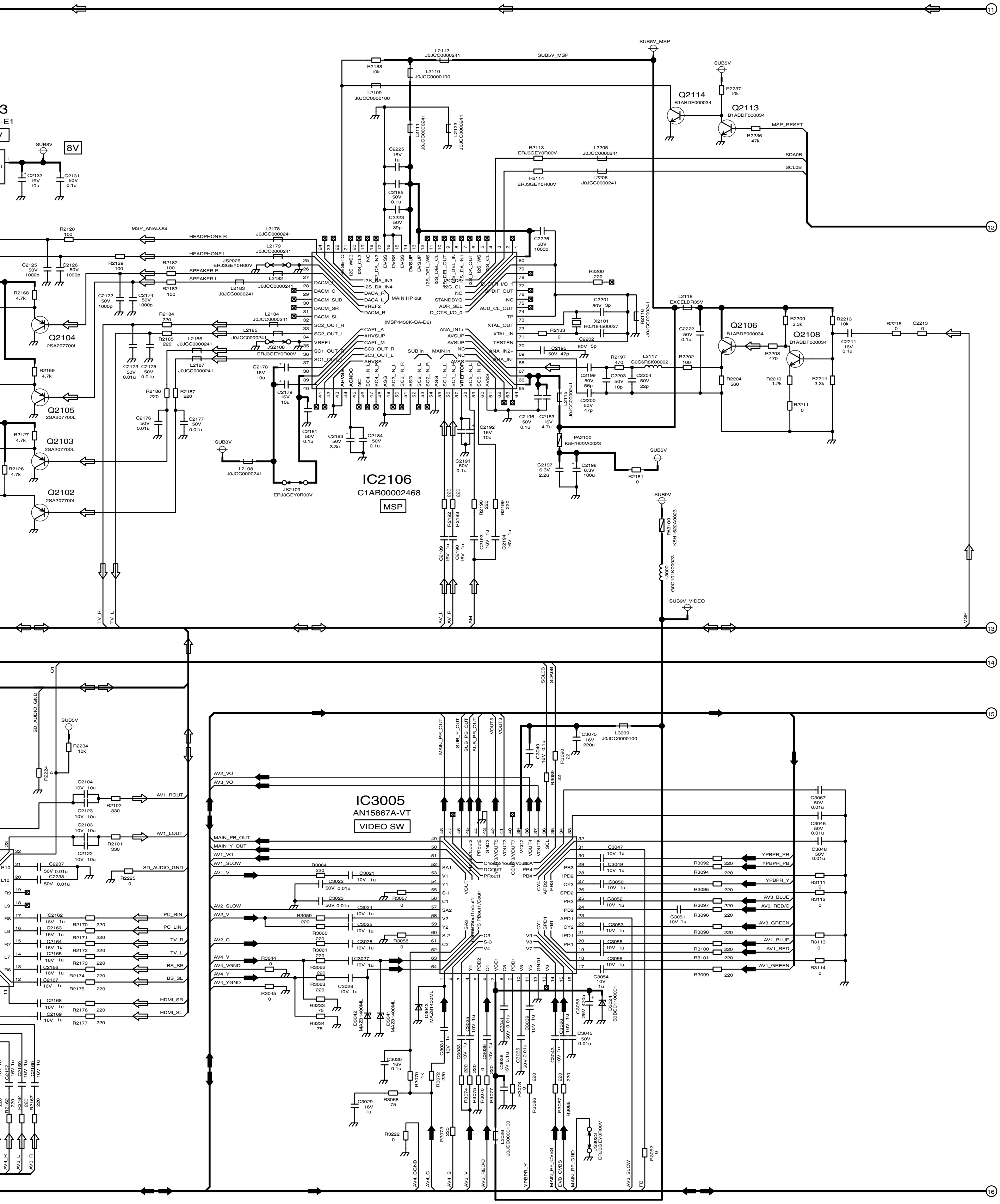
5 6 7 8 9

14.13. H-Board (2 of 3)Schematic Diagram


H-BOARD TNPA3759AD (2/3)
IC2103
AN77L08M-E1
AVR 8V
8V
SUB9V
SUB8V
IC2110
AN7705SP-E1
AVR 5V
MAIN9V
IC2109
C1BB00000947
HP AMP
IC2104
C0ABBA000168
VAO
Q2104
2SA207700L
Q2105
2SA207700L
Q2103
2SA207700L
Q2102
2SA207700L
MUTE CCT.
MUTE SW
Q2300
B1ABDF000034
Q2301
2SD0601ASL
Q2302
B1ABDF000034
Q2314
B1ABDF000034
Q2315
B1ABDF000034
Q2316
B1ABDF000034
Q2317
B1ABDF000034
STB+5V
RST
AUDIO_MUTE
SP_MUTE
AMUTE
IC2105
AN15862A-VT
AUDIO SW
SUB5V
SUB9V_VIDEO
SR_GND
SR
SL_GND
SL
AUDIOOUT_R
MAIN_R
AUDIOOUT_L
MAIN_L
AV1_L
AV1_R
AV2_L
AV2_R
AV4_L
AV4_R
AV3_L
AV3_R
SDA0B
SCL0B
AV_R
AV_L
AV3_ROUT
AV3_LOUT
AV2_ROUT
AV2_LOUT
SD_AUDIO_GND

TH-50PV60E, TH-50PX60B H-Board (2 of 3) Schematic Diagram

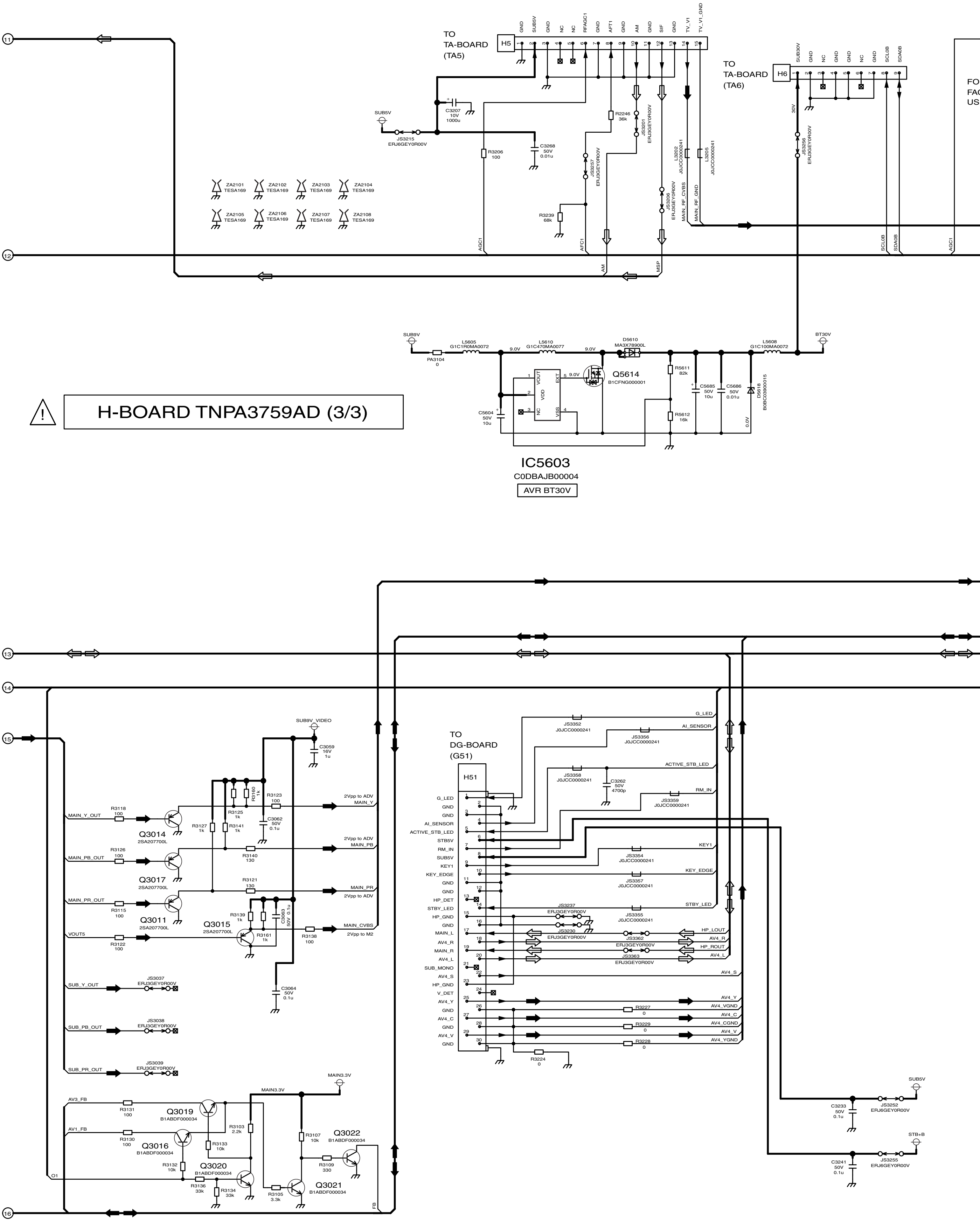
10 11 12 13 14


IC2106
C1AB00002468
MSP
(MSP4450K-QA-D6)
IC3005
AN15867A-VT
VIDEO SW
Q2114
B1ABDF000034
Q2113
B1ABDF000034
Q2106
B1ABDF000034
Q2108
B1ABDF000034
Q2104
2SA207700L
Q2105
2SA207700L
Q2103
2SA207700L
Q2102
2SA207700L
SUB5V_MSP
SUB5V
SUB8V
8V
SUB9V
SUB9V_VIDEO
MSP_RESET
SDA0B
SCL0B
MSP_ANALOG
HEADPHONE R
HEADPHONE L
SPEAKER R
SPEAKER L
X2101
H0J184500027
PA2100
K5H1622A0023
PA3100
K5H1622A0023
AV1_ROUT
AV1_LOUT
SD_AUDIO_GND
PC_RIN
PC_LIN
TV_R
TV_L
BS_SR
BS_SL
HDMI_SR
HDMI_SL
AV2_VO
AV3_VO
MAIN_PB_OUT
MAIN_Y_OUT
AV1_VO
AV1_SLOW
AV1_V
AV2_SLOW
AV2_V
AV2_C
AV4_V
AV4_VGND
AV4_Y
AV4_YGND
YPBPR_PR
YPBPR_PB
YPBPR_Y
AV3_BLUE
AV3_RED/C
AV3_GREEN
AV1_BLUE
AV1_RED
AV1_GREEN
MAIN_PR_OUT
SUB_Y_OUT
SUB_PB_OUT
SUB_PR_OUT
VOUT5
VOUT3
SCL0B
SDA0B
AV4_CGND
AV4_C
AV4_S
AV3_V
AV3_REDC
YPBPR_Y
MAIN_RF_CVBS
DVB_CVBS
MAIN_RF_GND
AV3_SLOW
FB
AV_L
AV_R
AM
MSP
TV_R
TV_L
SD_AUDIO_GND

TH-50PV60E, TH-50PX60B H-Board (2 of 3) Schematic Diagram

14	15	16	17	18

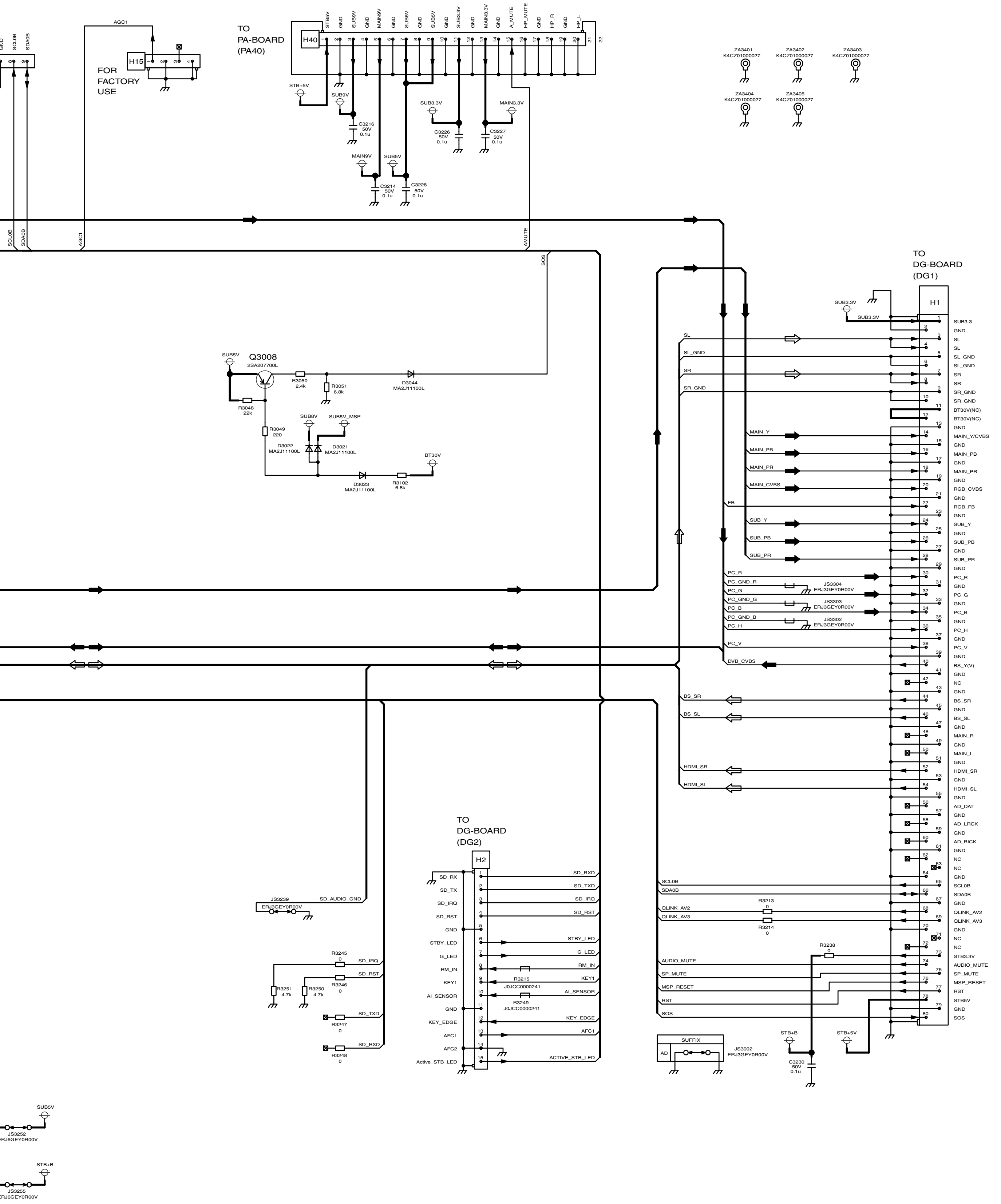
14.14. H-Board (3 of 3)Schematic Diagram



H-BOARD TNPA3759AD (3/3)
TO TA-BOARD (TA5)
H5
GND
SUB5V
NC
RFAGC1
AFT1
AM
SIF
TV_V1
TV_V1_GND
TO TA-BOARD (TA6)
H6
SUB30V
SCL0B
SDA0B
SUB5V
C3207 10V 1000u
JS3215 ERJ6GEY0R00V
R3206 100
C3268 50V 0.01u
R2246 36k
JS3201 ERJ3GEY0R00V
JS3257 ERJ3GEY0R00V
R3239 68k
L3202 J0JCC0000241
L3205 J0JCC0000241
JS3206 ERJ3GEY0R00V
MAIN_RF_CVBS
MAIN_RF_GND
JS3256 ERJ3GEY0R00V
30V
ZA2101 TESA169
ZA2102 TESA169
ZA2103 TESA169
ZA2104 TESA169
ZA2105 TESA169
ZA2106 TESA169
ZA2107 TESA169
ZA2108 TESA169
AGC1
AFC1
AM
MSP
SCL0B
SDA0B
SUB9V
L5605 G1C1R0MA0072
PA3104 0
L5610 G1C470MA0077
9.0V
D5610 MA3X78900L
L5608 G1C100MA0072
BT30V
Q5614 B1CFNG000001
R5611 82k
R5612 16k
C5685 50V 10u
C5686 50V 0.01u
D5618 B0BC03900015
C5604 50V 10u
VOUT
VDD
NC
EXT
VSS
0.0V
IC5603
C0DBAJB00004
AVR BT30V
SUB9V_VIDEO
C3059 16V 1u
R3118 100
MAIN_Y_OUT
Q3014 2SA2077O0L
R3127 1k
R3125 1k
R3141 1k
R3160 1k
R3123 100
C3062 50V 0.1u
2Vpp to ADV MAIN_Y
MAIN_PB_OUT
R3126 100
R3140 130
2Vpp to ADV MAIN_PB
Q3017 2SA2077O0L
R3121 130
MAIN_PR_OUT
MAIN_PR 2Vpp to ADV
R3115 100
Q3011 2SA2077O0L
Q3015 2SA2077O0L
R3139 1k
R3161 1k
C3063 50V 0.1u
R3138 100
MAIN_CVBS 2Vpp to M2
VOUT5
R3122 100
C3064 50V 0.1u
SUB_Y_OUT
JS3037 ERJ3GEY0R00V
SUB_PB_OUT
JS3038 ERJ3GEY0R00V
SUB_PR_OUT
JS3039 ERJ3GEY0R00V
MAIN3.3V
AV3_FB
R3131 100
Q3019 B1ABDF000034
AV1_FB
R3130 100
Q3016 B1ABDF000034
R3103 2.2k
R3133 10k
R3107 10k
Q3022 B1ABDF000034
R3132 10k
Q3020 B1ABDF000034
R3109 330
R3136 33k
R3134 33k
R3105 3.3k
Q3021 B1ABDF000034
O1
FB
TO DG-BOARD (G51)
H51
G_LED
GND
AI_SENSOR
ACTIVE_STB_LED
STB5V
RM_IN
SUB5V
KEY1
KEY_EDGE
HP_DET
STBY_LED
HP_GND
MAIN_L
AV4_R
MAIN_R
AV4_L
SUB_MONO
AV4_S
HP_GND
V_DET
AV4_Y
AV4_C
AV4_V
JS3352 J0JCC0000241
JS3356 J0JCC0000241
JS3358 J0JCC0000241
C3262 50V 4700p
JS3359 J0JCC0000241
JS3354 J0JCC0000241
JS3357 J0JCC0000241
JS3237 ERJ3GEY0R00V
JS3355 J0JCC0000241
JS3230 ERJ3GEY0R00V
JS3362 ERJ3GEY0R00V
JS3363 ERJ3GEY0R00V
HP_LOUT
HP_ROUT
AV4_VGND
AV4_CGND
AV4_YGND
R3227 0
R3229 0
R3228 0
R3224 0
C3233 50V 0.1u
JS3252 ERJ6GEY0R00V
STB+B
C3241 50V 0.1u
JS3255 ERJ6GEY0R00V
FO
FAC
US

TH-50PV60E, TH-50PX60B H-Board (3 of 3) Schematic Diagram

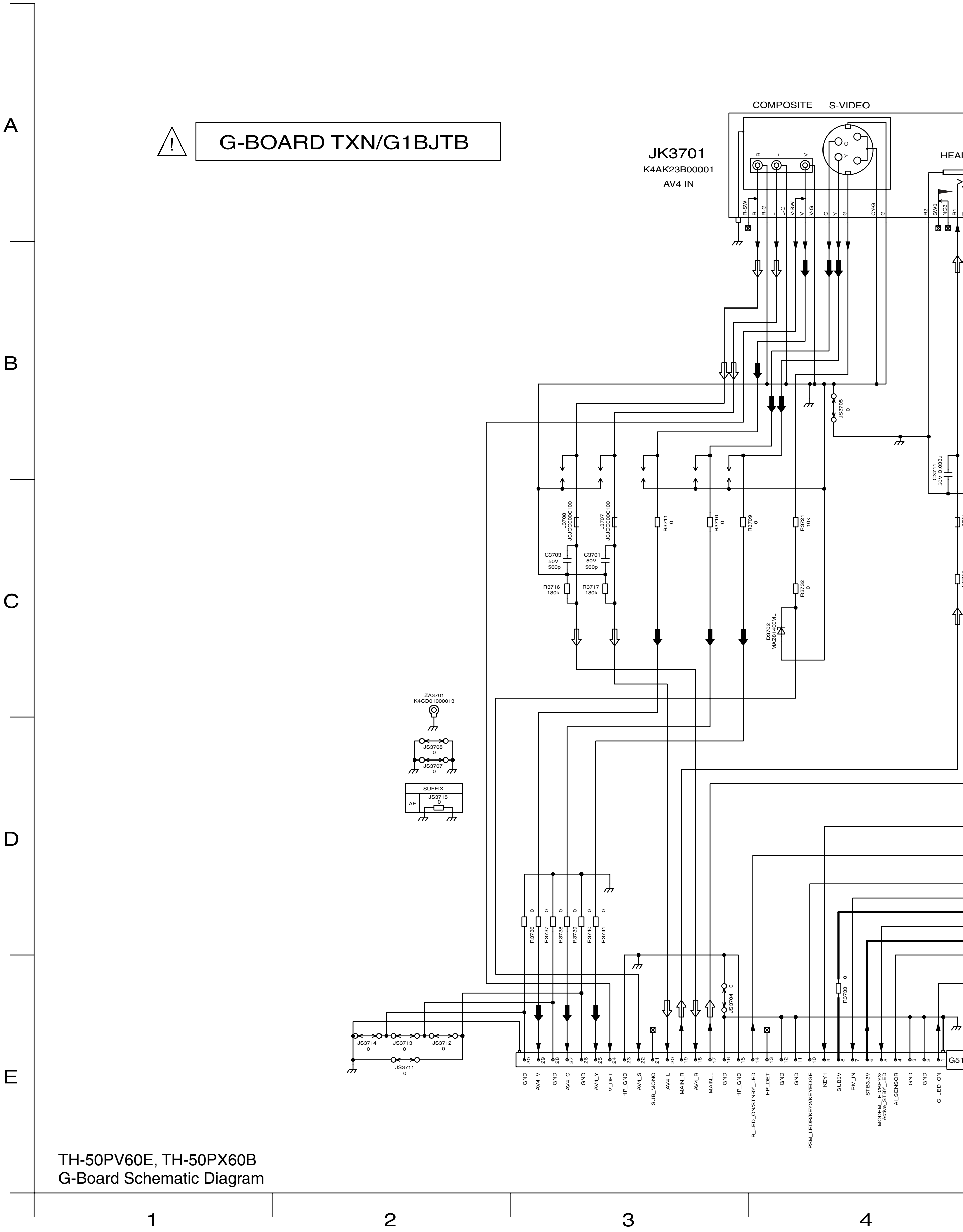
19 20 21 22 23


TO
PA-BOARD
(PA40)
H40
FOR
FACTORY
USE
H15
AGC1
TO
DG-BOARD
(DG1)
H1
TO
DG-BOARD
(DG2)
H2
Q3008
2SA207700L
R3050
2.4k
R3051
6.8k
D3044
MA2J11100L
R3048
22k
R3049
220
D3022
MA2J11100L
D3021
MA2J11100L
D3023
MA2J11100L
R3102
6.8k
BT30V
SUB5V
SUB6V
SUB5V_MSP
STB+5V
SUB9V
C3216
50V
0.1u
SUB3.3V
MAIN3.3V
C3226
50V
0.1u
C3227
50V
0.1u
MAIN9V
C3214
50V
0.1u
C3228
50V
0.1u
ZA3401
K4CZ01000027
ZA3402
K4CZ01000027
ZA3403
K4CZ01000027
ZA3404
K4CZ01000027
ZA3405
K4CZ01000027
JS3304
ERJ3GEY0R00V
JS3303
ERJ3GEY0R00V
JS3302
ERJ3GEY0R00V
JS3239
ERJ3GEY0R00V
SD_AUDIO_GND
R3245
0
R3246
0
R3251
4.7k
R3250
4.7k
R3247
0
R3248
0
R3215
J0JCC0000241
R3249
J0JCC0000241
R3213
0
R3214
0
R3238
0
SUFFIX
AD
JS3002
ERJ3GEY0R00V
STB+B
C3230
50V
0.1u
JS3252
ERJ6GEY0R00V
JS3255
ERJ6GEY0R00V
SD_RX
SD_TX
SD_IRQ
SD_RST
GND
STBY_LED
G_LED
RM_IN
KEY1
AI_SENSOR
KEY_EDGE
AFC1
AFC2
Active_STB_LED
SD_RXD
SD_TXD
ACTIVE_STB_LED
SUB3.3
SL
SL_GND
SR
SR_GND
BT30V(NC)
MAIN_Y/CVBS
MAIN_PB
MAIN_PR
RGB_CVBS
RGB_FB
SUB_Y
SUB_PB
SUB_PR
PC_R
PC_G
PC_B
PC_H
PC_V
BS_Y(V)
NC
BS_SR
BS_SL
MAIN_R
MAIN_L
HDMI_SR
HDMI_SL
AD_DAT
AD_LRCK
AD_BICK
SCL0B
SDA0B
QLINK_AV2
QLINK_AV3
STB3.3V
AUDIO_MUTE
SP_MUTE
MSP_RESET
RST
STB5V
SOS
DVB_CVBS
A_MUTE
HP_MUTE
HP_R
HP_L
AMUTE
STB5V
MAIN_CVBS
FB
PC_GND_R
PC_GND_G
PC_GND_B

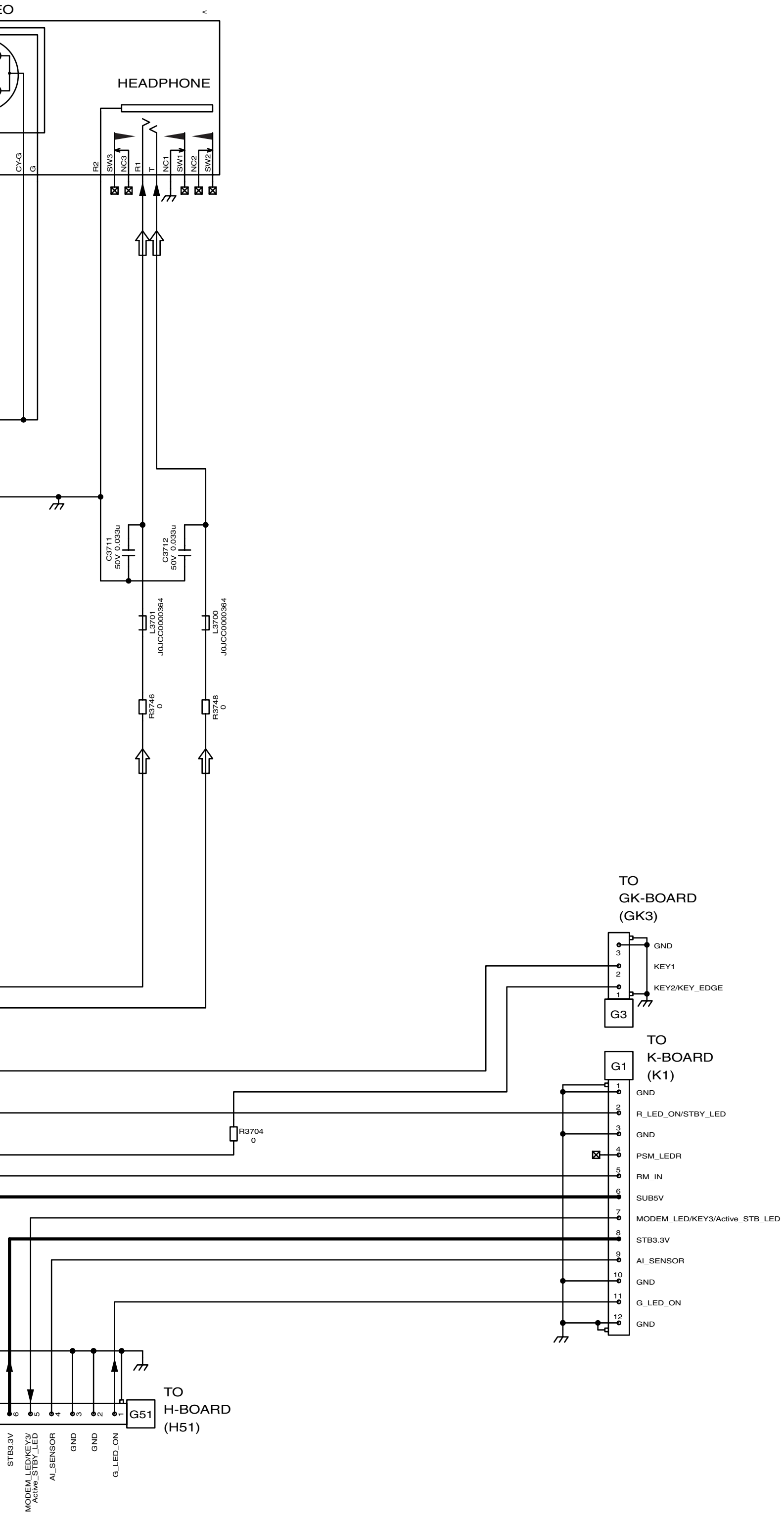
TH-50PV60E, TH-50PX60B
H-Board (3 of 3) Schematic Diagram

23 24 25 26 27

14.15. G-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
G-BOARD TXN/G1BJTB
JK3701
K4AK23B00001
AV4 IN
COMPOSITE
S-VIDEO
HEAD
R
L
V
C
Y
R-SW
R
R-G
L
L-G
V-SW
V
V-G
C
Y
G
CY-G
G
R2
SW3
NC3
R1
JS3705
0
C3711
50V 0.033u
L3708
J0JCC0000100
L3707
J0JCC0000100
C3703
50V
560p
C3701
50V
560p
R3716
180k
R3717
180k
R3711
0
R3710
0
R3709
0
R3721
10k
R3732
0
D3702
MAZ81400ML
ZA3701
K4CD01000013
JS3708
0
JS3707
0
SUFFIX
AE
JS3715
0
R3736
R3737
R3738
R3739
R3740
R3741
0
JS3714
0
JS3713
0
JS3712
0
JS3711
0
JS3704
0
R3733
0
G51
30 GND
29 AV4_V
28 GND
27 AV4_C
26 GND
25 AV4_Y
24 V_DET
23 HP_GND
22 AV4_S
21 SUB_MONO
20 AV4_L
19 MAIN_R
18 AV4_R
17 MAIN_L
16 GND
15 HP_GND
14 R_LED_ON/STNBY_LED
13 HP_DET
12 GND
11 GND
10 PSM_LEDR/KEY2/KEYEDGE
9 KEY1
8 SUB5V
7 RM_IN
6 STB3.3V
5 MODEM_LED/KEY3/ Active_STBY_LED
4 AI_SENSOR
3 GND
2 GND
1 G_LED_ON

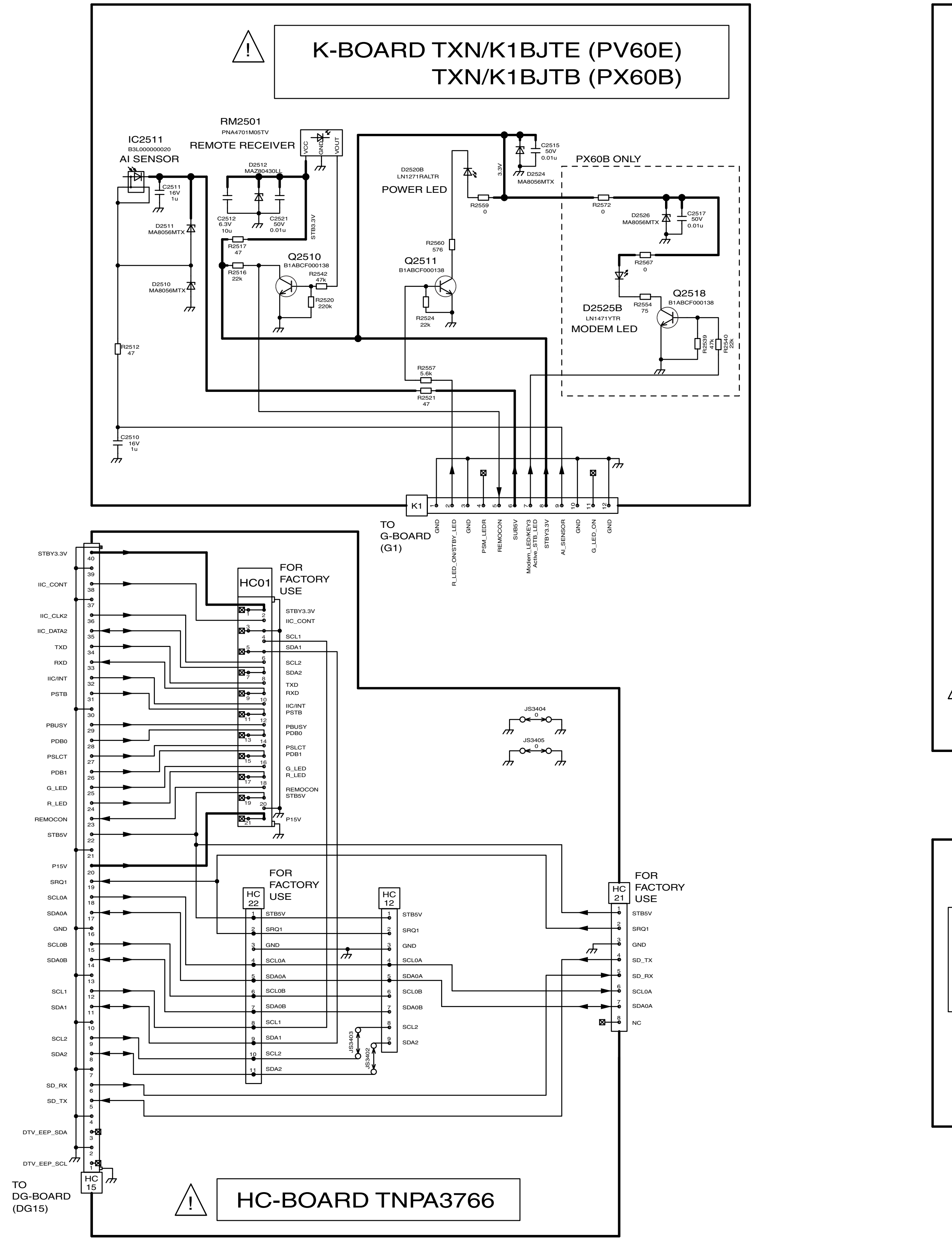
TH-50PV60E, TH-50PX60B
G-Board Schematic Diagram


EO
HEADPHONE
CY.G
G
R2
SW3
NC3
R1
T
NC1
SW1
NC2
SW2
C3711
50V 0.033u
C3712
50V 0.033u
L3701
J0JCC0000364
L3700
J0JCC0000364
R3746
0
R3748
0
TO
GK-BOARD
(GK3)
GND
KEY1
KEY2/KEY_EDGE
G3
TO
K-BOARD
(K1)
G1
GND
R_LED_ON/STBY_LED
GND
PSM_LEDR
RM_IN
SUB5V
MODEM_LED/KEY3/Active_STB_LED
STB3.3V
AI_SENSOR
GND
G_LED_ON
GND
R3704
0
TO
H-BOARD
(H51)
G51
STB3.3V
MODEM_LED/KEY3/
Active_STBY_LED
AI_SENSOR
GND
GND
G_LED_ON

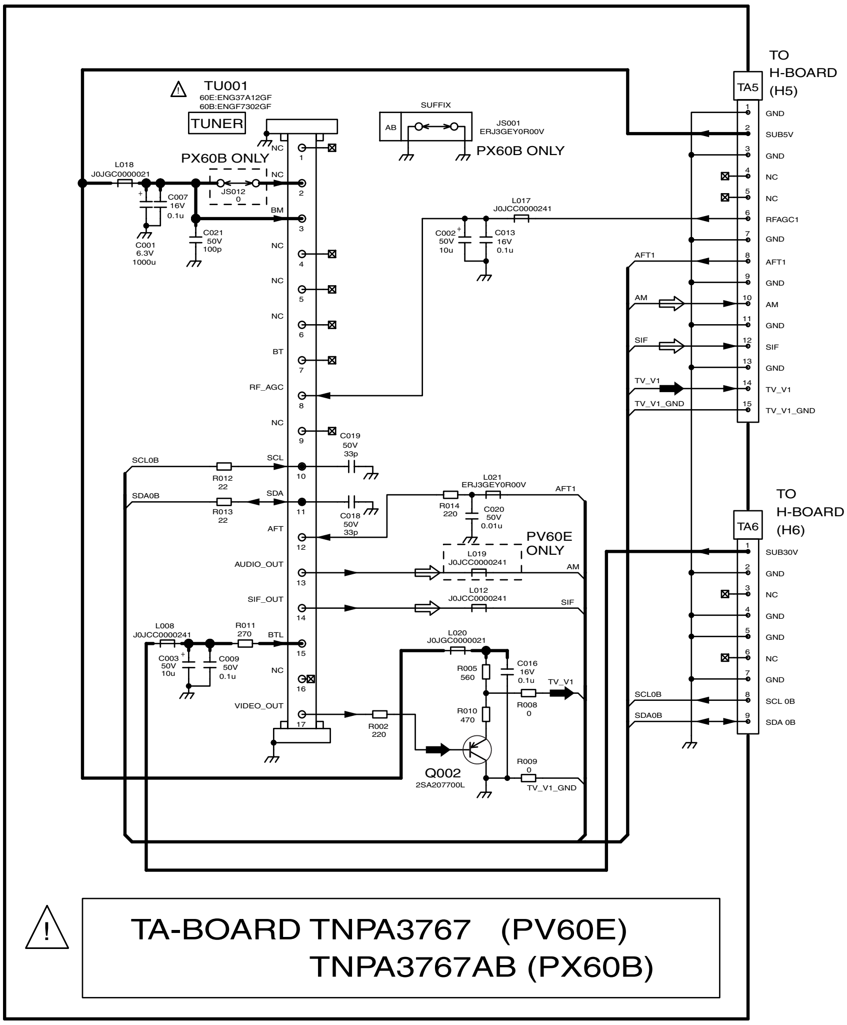
TH-50PV60E, TH-50PX60B
G-Board Schematic Diagram

4 5 6 7 8

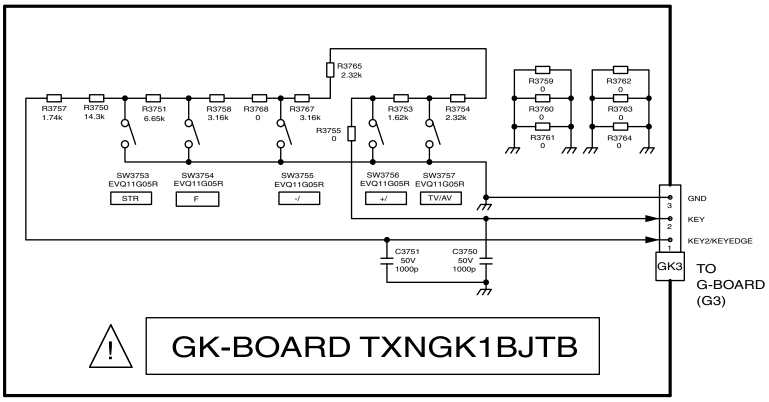
14.16. GK, K, HC and TA-Board Schematic Diagram


K-BOARD TXN/K1BJTE (PV60E)
TXN/K1BJTB (PX60B)
RM2501
PNA4701M05TV
REMOTE RECEIVER
IC2511
B3L000000020
AI SENSOR
C2511 16V 1u
D2511 MA8056MTX
D2510 MA8056MTX
R2512 47
C2510 16V 1u
D2512 MAZ80430LL
C2512 6.3V 10u
C2521 50V 0.01u
R2517 47
R2516 22k
STB3.3V
Q2510
B1ABCF000138
R2542 47k
R2520 220k
D2520B
LN1271RALTR
POWER LED
C2515 50V 0.01u
D2524 MA8056MTX
3.3V
R2559 0
R2560 576
Q2511
B1ABCF000138
R2524 22k
R2557 5.6k
R2521 47
PX60B ONLY
R2572 0
D2526 MA8056MTX
C2517 50V 0.01u
R2567 0
D2525B
LN1471YTR
MODEM LED
R2554 75
Q2518
B1ABCF000138
R2539 47k
R2540 22k
K1
TO G-BOARD (G1)
GND
R_LED_ON/STBY_LED
GND
PSM_LEDR
REMOCON
SUB5V
Modem_LED/KEY3 Active_STB_LED
STBY3.3V
AI_SENSOR
GND
G_LED_ON
GND
HC01
FOR FACTORY USE
STBY3.3V
IIC_CONT
SCL1
SDA1
SCL2
SDA2
TXD
RXD
IIC/INT
PSTB
PBUSY
PDB0
PSLCT
PDB1
G_LED
R_LED
REMOCON
STB5V
P15V
IIC_CLK2
IIC_DATA2
SRQ1
SCL0A
SDA0A
GND
SCL0B
SDA0B
SD_RX
SD_TX
DTV_EEP_SDA
DTV_EEP_SCL
TO DG-BOARD (DG15)
HC15
JS3404 0
JS3405 0
HC22
HC12
HC21
FOR FACTORY USE
SD_TX
SD_RX
NC
JS3403
JS3402
HC-BOARD TNPA3766
A
B
C
D
E
1
2
3
4

TH-50PV60E, TH-50PX60B GK, K, HC and TA-Board Schematic Diagram

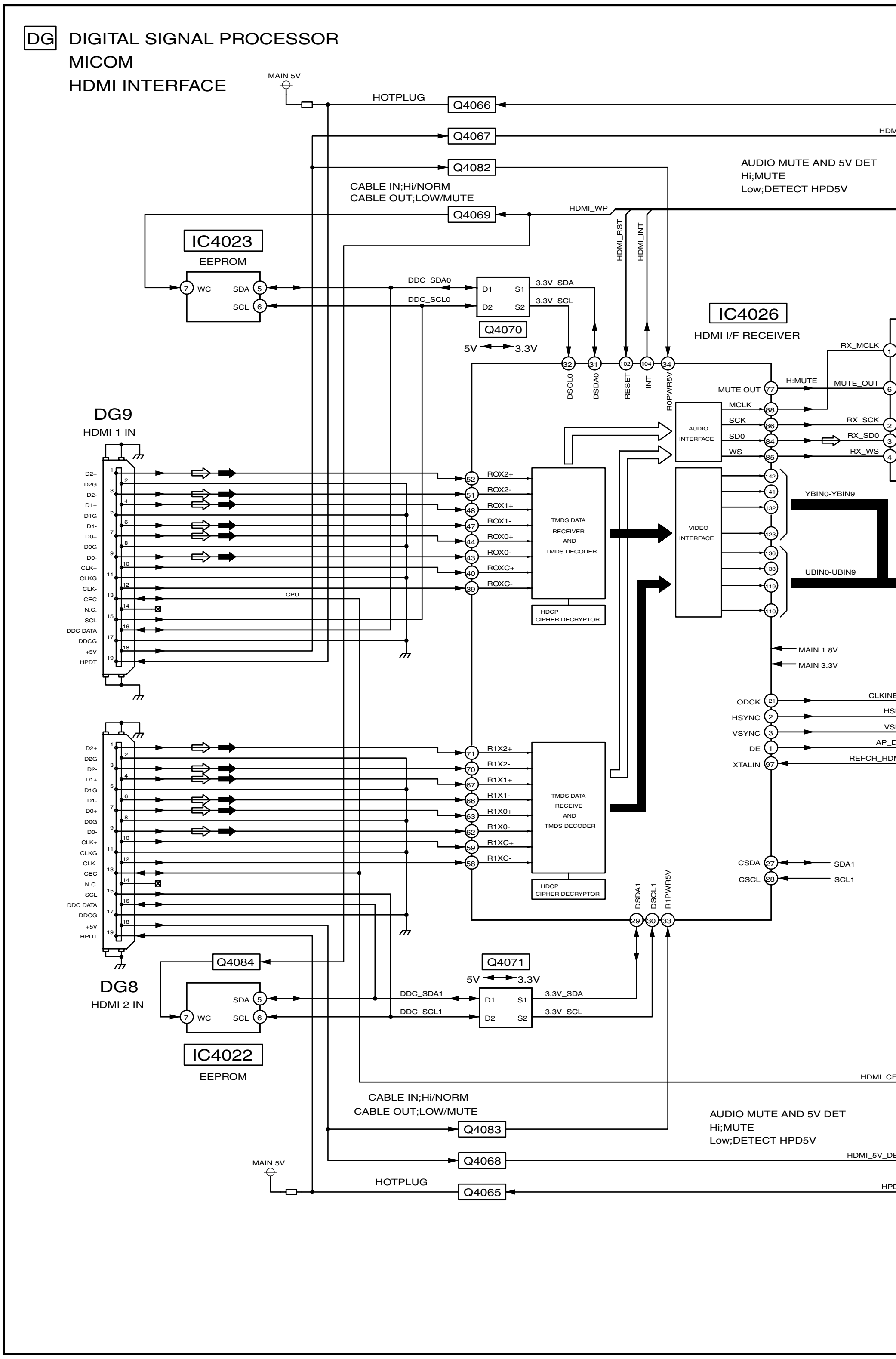

TU001
60E:ENG37A12GF
60B:ENGF7302GF
TUNER
PX60B ONLY
L018
J0JGC0000021
C007
16V
0.1u
C001
6.3V
1000u
JS012
0
C021
50V
100p
NC
BM
BT
RF_AGC
SCL
SDA
AFT
AUDIO_OUT
SIF_OUT
BTL
VIDEO_OUT
SCL0B
SDA0B
R012
22
R013
22
C019
50V
33p
C018
50V
33p
L008
J0JCC0000241
C003
50V
10u
C009
50V
0.1u
R011
270
SUFFIX
AB
JS001
ERJ3GEY0R00V
PX60B ONLY
L017
J0JCC0000241
C002
50V
10u
C013
16V
0.1u
R014
220
L021
ERJ3GEY0R00V
C020
50V
0.01u
AFT1
PV60E
ONLY
L019
J0JCC0000241
AM
L012
J0JCC0000241
SIF
L020
J0JGC0000021
R005
560
C016
16V
0.1u
TV_V1
R010
470
R008
0
R002
220
Q002
2SA207700L
R009
0
TV_V1_GND
TO
H-BOARD
(H5)
TA5
GND
SUB5V
GND
NC
NC
RFAGC1
GND
AFT1
GND
AM
GND
SIF
GND
TV_V1
TV_V1_GND
TO
H-BOARD
(H6)
TA6
SUB30V
GND
NC
GND
GND
NC
GND
SCL 0B
SDA 0B
SCL0B
SDA0B

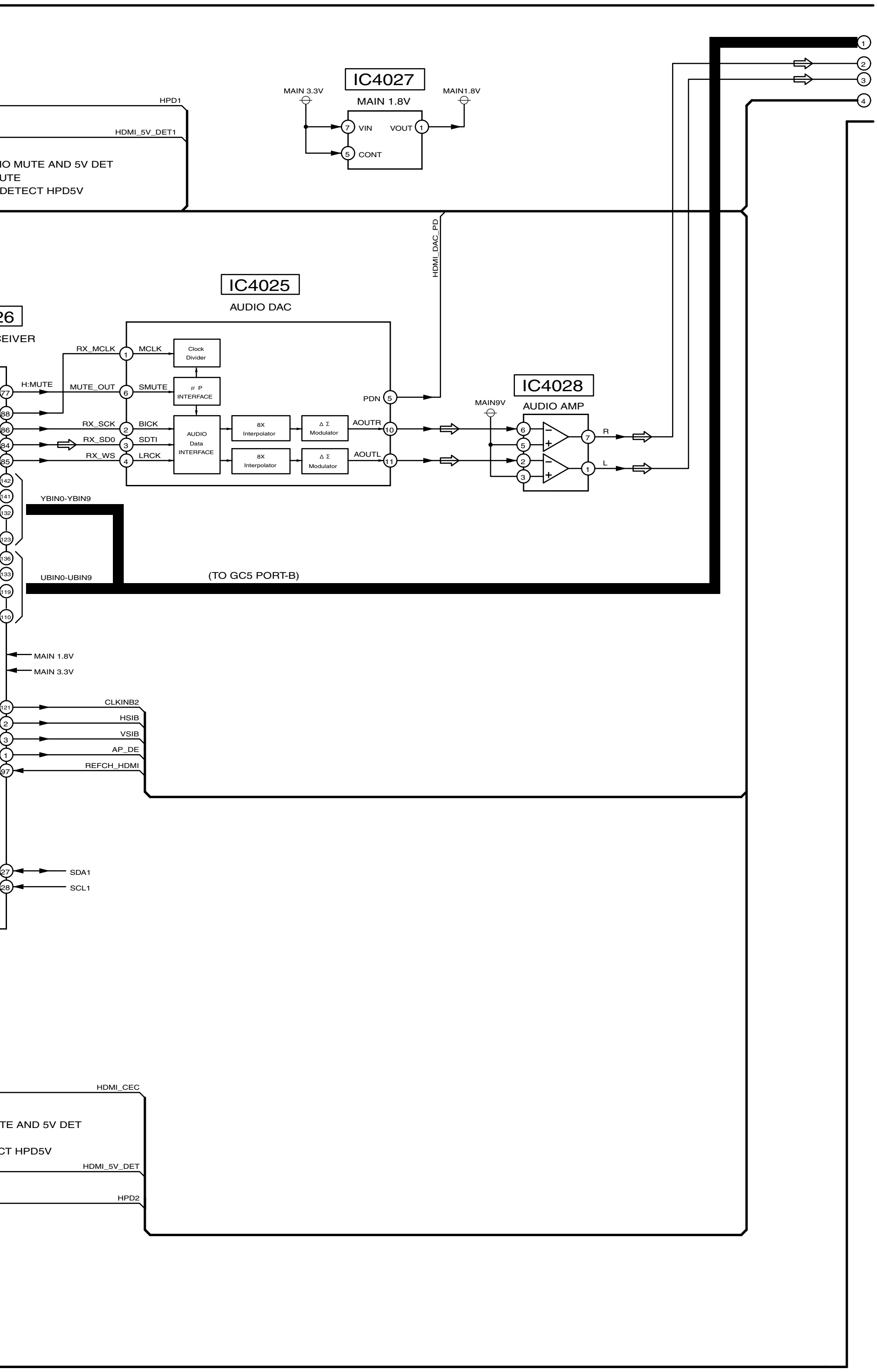
TA-BOARD TNPA3767 (PV60E)
TNPA3767AB (PX60B)


R3765
2.32k
R3757
1.74k
R3750
14.3k
R3751
6.65k
R3758
3.16k
R3768
0
R3767
3.16k
R3755
0
R3753
1.62k
R3754
2.32k
R3759
0
R3760
0
R3761
0
R3762
0
R3763
0
R3764
0
SW3753
EVQ11G05R
STR
SW3754
EVQ11G05R
F
SW3755
EVQ11G05R
-/
SW3756
EVQ11G05R
+/
SW3757
EVQ11G05R
TV/AV
C3751
50V
1000p
C3750
50V
1000p
GND
KEY
KEY2/KEYEDGE
GK3
TO
G-BOARD
(G3)

GK-BOARD TXNGK1BJTB

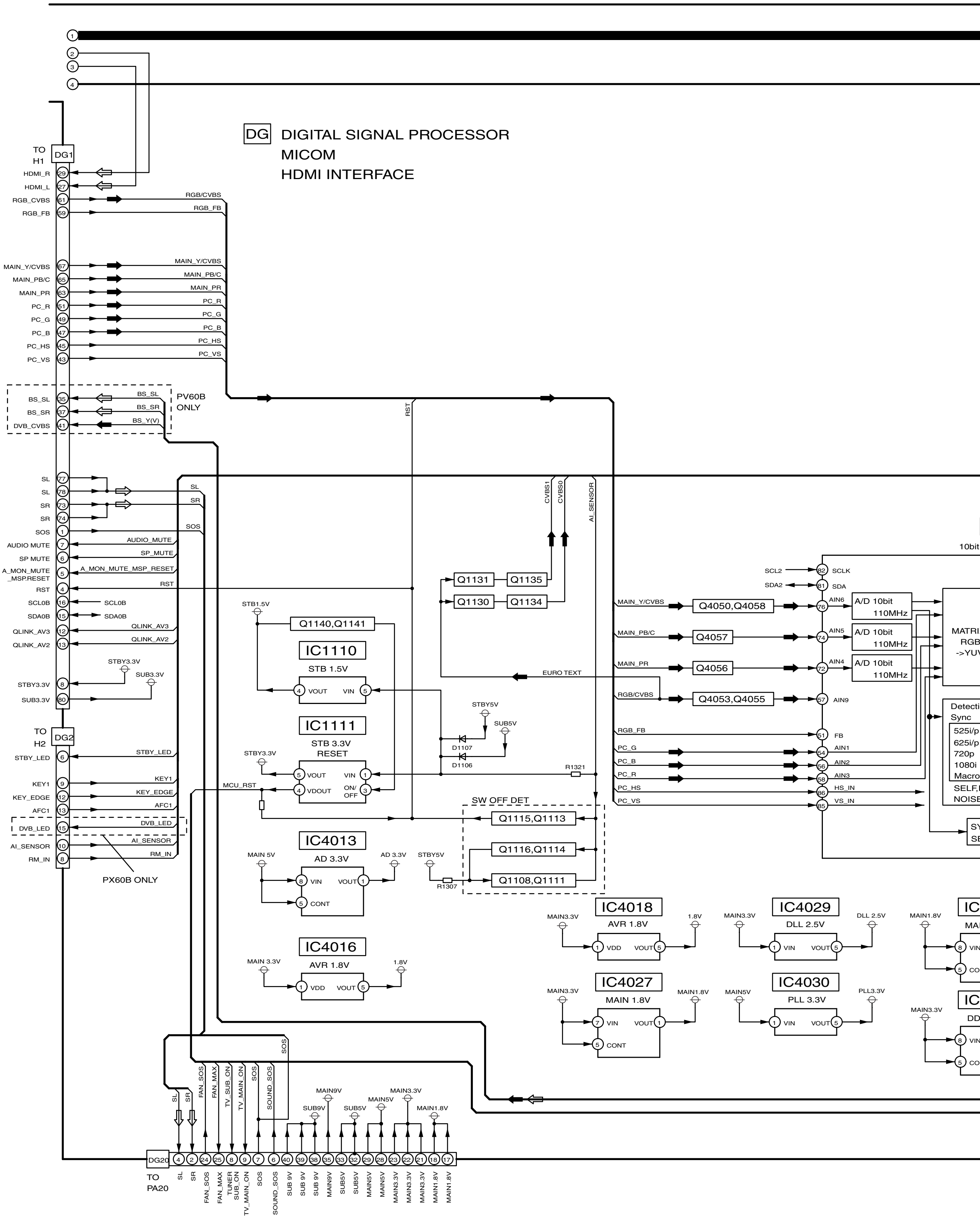
14.17. DG-Board (1 of 3) Block Diagram


DG
DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
MAIN 5V
HOTPLUG
Q4066
Q4067
Q4082
Q4069
CABLE IN;Hi/NORM
CABLE OUT;LOW/MUTE
AUDIO MUTE AND 5V DET
Hi;MUTE
Low;DETECT HPD5V
HDMI_WP
HDMI_RST
HDMI_INT
IC4023
EEPROM
WC
SDA
SCL
DDC_SDA0
DDC_SCL0
D1
D2
S1
S2
3.3V_SDA
3.3V_SCL
Q4070
5V
3.3V
DSCL0
DSDA0
RESET
INT
R0PWR5V
IC4026
HDMI I/F RECEIVER
RX_MCLK
H:MUTE
MUTE_OUT
MUTE OUT
MCLK
SCK
SD0
WS
RX_SCK
RX_SD0
RX_WS
AUDIO INTERFACE
VIDEO INTERFACE
YBIN0-YBIN9
UBIN0-UBIN9
DG9
HDMI 1 IN
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V
HPDT
CPU
R0X2+
R0X2-
R0X1+
R0X1-
R0X0+
R0X0-
R0XC+
R0XC-
TMDS DATA RECEIVER AND TMDS DECODER
HDCP CIPHER DECRYPTOR
MAIN 1.8V
MAIN 3.3V
ODCK
HSYNC
VSYNC
DE
XTALIN
CLKINE
HS
VS
AP_D
REFCH_HDM
R1X2+
R1X2-
R1X1+
R1X1-
R1X0+
R1X0-
R1XC+
R1XC-
TMDS DATA RECEIVE AND TMDS DECODER
CSDA
CSCL
SDA1
SCL1
DSDA1
DSCL1
R1PWR5V
Q4084
Q4071
DG8
HDMI 2 IN
DDC_SDA1
DDC_SCL1
IC4022
EEPROM
HDMI_CE
Q4083
Q4068
Q4065
HDMI_5V_DE
HPD
HDM

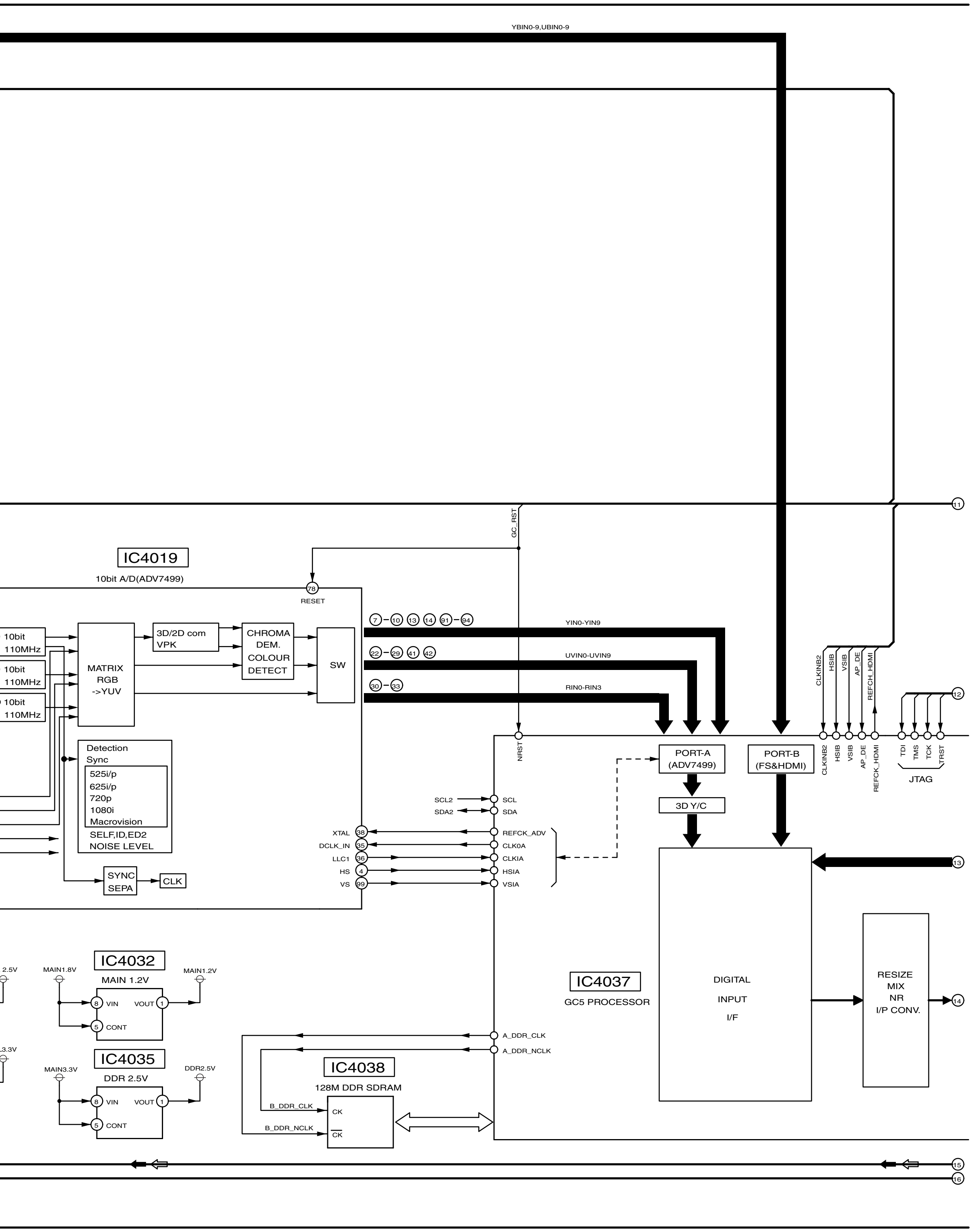

IC4027
MAIN 1.8V
MAIN 3.3V
MAIN1.8V
VIN
VOUT
CONT
HPD1
HDMI_5V_DET1
IO MUTE AND 5V DET
UTE
DETECT HPD5V
HDMI_DAC_PD
IC4025
AUDIO DAC
26
EIVER
RX_MCLK
H:MUTE
MUTE_OUT
RX_SCK
RX_SD0
RX_WS
MCLK
SMUTE
BICK
SDTI
LRCK
Clock Divider
μ P INTERFACE
AUDIO Data INTERFACE
8X Interpolator
Δ Σ Modulator
PDN
AOUTR
AOUTL
IC4028
AUDIO AMP
MAIN9V
R
L
YBIN0-YBIN9
UBIN0-UBIN9
(TO GC5 PORT-B)
MAIN 1.8V
MAIN 3.3V
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
SDA1
SCL1
HDMI_CEC
TE AND 5V DET
CT HPD5V
HDMI_5V_DET
HPD2

TH-50PV60E, TH-50PX60B
DG-Board (1 of 3) Block Diagram

14.18. DG-Board (2 of 3) Block Diagram

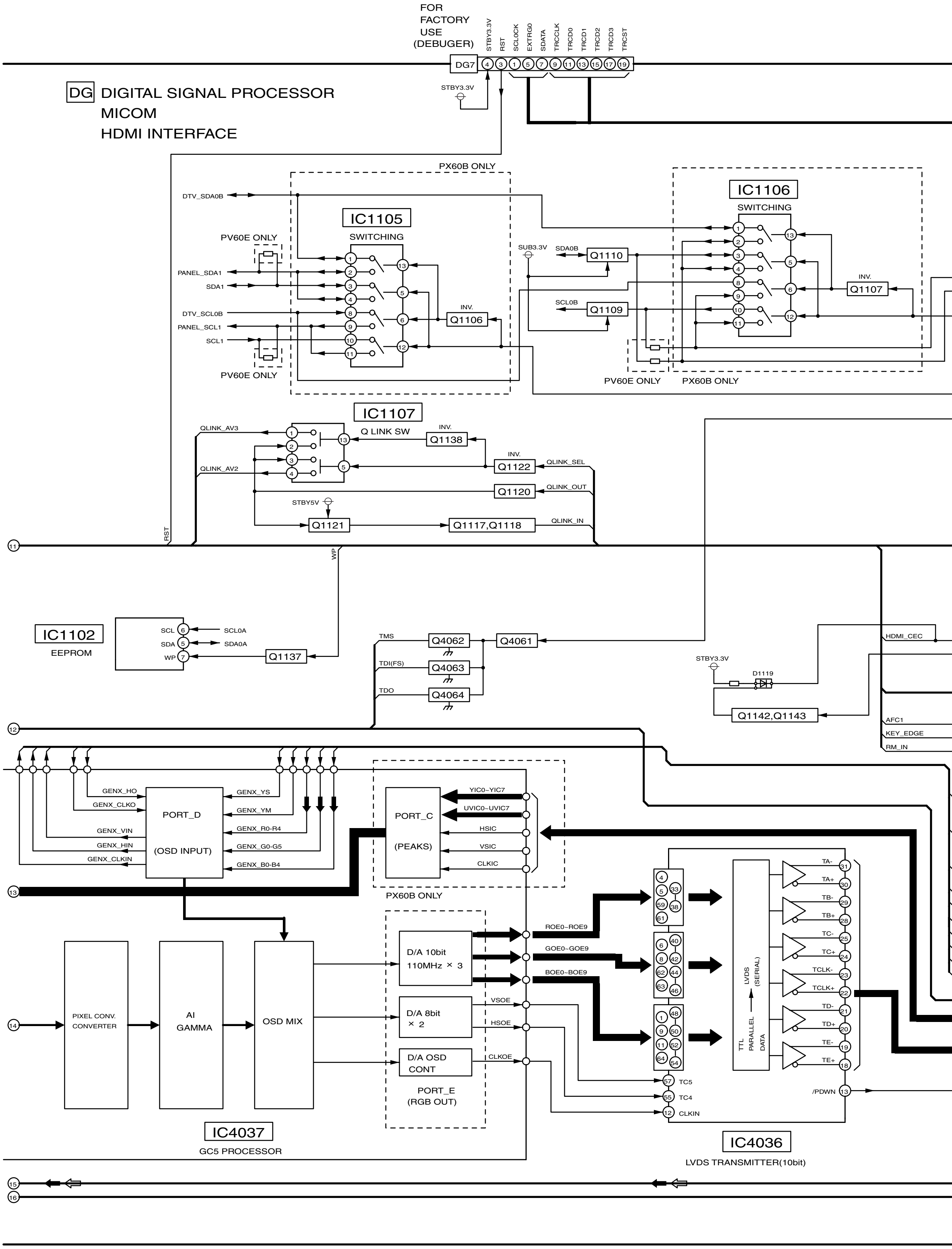

DG DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
TO H1
DG1
HDMI_R
HDMI_L
RGB_CVBS
RGB_FB
RGB/CVBS
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
PC_R
PC_G
PC_B
PC_HS
PC_VS
BS_SL
BS_SR
DVB_CVBS
BS_Y(V)
PV60B ONLY
SL
SR
SOS
AUDIO MUTE
SP MUTE
A_MON_MUTE _MSP.RESET
RST
SCL0B
SDA0B
QLINK_AV3
QLINK_AV2
AUDIO_MUTE
SP_MUTE
A_MON_MUTE_MSP_RESET
STBY3.3V
SUB3.3V
TO H2
DG2
STBY_LED
KEY1
KEY_EDGE
AFC1
DVB_LED
AI_SENSOR
RM_IN
PX60B ONLY
STB1.5V
Q1140,Q1141
IC1110
STB 1.5V
VOUT
VIN
IC1111
STB 3.3V
RESET
VDOUT
ON/ OFF
MCU_RST
IC4013
AD 3.3V
MAIN 5V
CONT
IC4016
AVR 1.8V
MAIN 3.3V
1.8V
VDD
Q1131
Q1135
Q1130
Q1134
CVBS1
CVBS0
AI_SENSOR
EURO TEXT
STBY5V
SUB5V
D1107
D1106
R1321
SW OFF DET
Q1115,Q1113
Q1116,Q1114
Q1108,Q1111
R1307
IC4018
AVR 1.8V
MAIN3.3V
IC4027
MAIN 1.8V
MAIN1.8V
IC4029
DLL 2.5V
IC4030
PLL 3.3V
MAIN5V
PLL3.3V
IC
SCL2
SDA2
SCLK
SDA
Q4050,Q4058
Q4057
Q4056
Q4053,Q4055
AIN6
AIN5
AIN4
AIN9
A/D 10bit 110MHz
MATRI
RGB ->YU
10bit
FB
AIN1
AIN2
AIN3
HS_IN
VS_IN
Detecti
Sync
525i/p
625i/p
720p
1080i
Macro
SELF,I
NOISE
SY
SE
DG20
TO PA20
FAN_SOS
FAN_MAX
TUNER SUB_ON
TV_SUB_ON
TV_MAIN_ON
SOUND_SOS
SUB9V
SUB 9V
MAIN9V
SUB5V
MAIN5V
MAIN3.3V
MAIN3.3V
MAIN1.8V
MAIN1.8V

TH-50PV60E, TH-50PX60B
DG-Board Block (2 of 3) Diagram

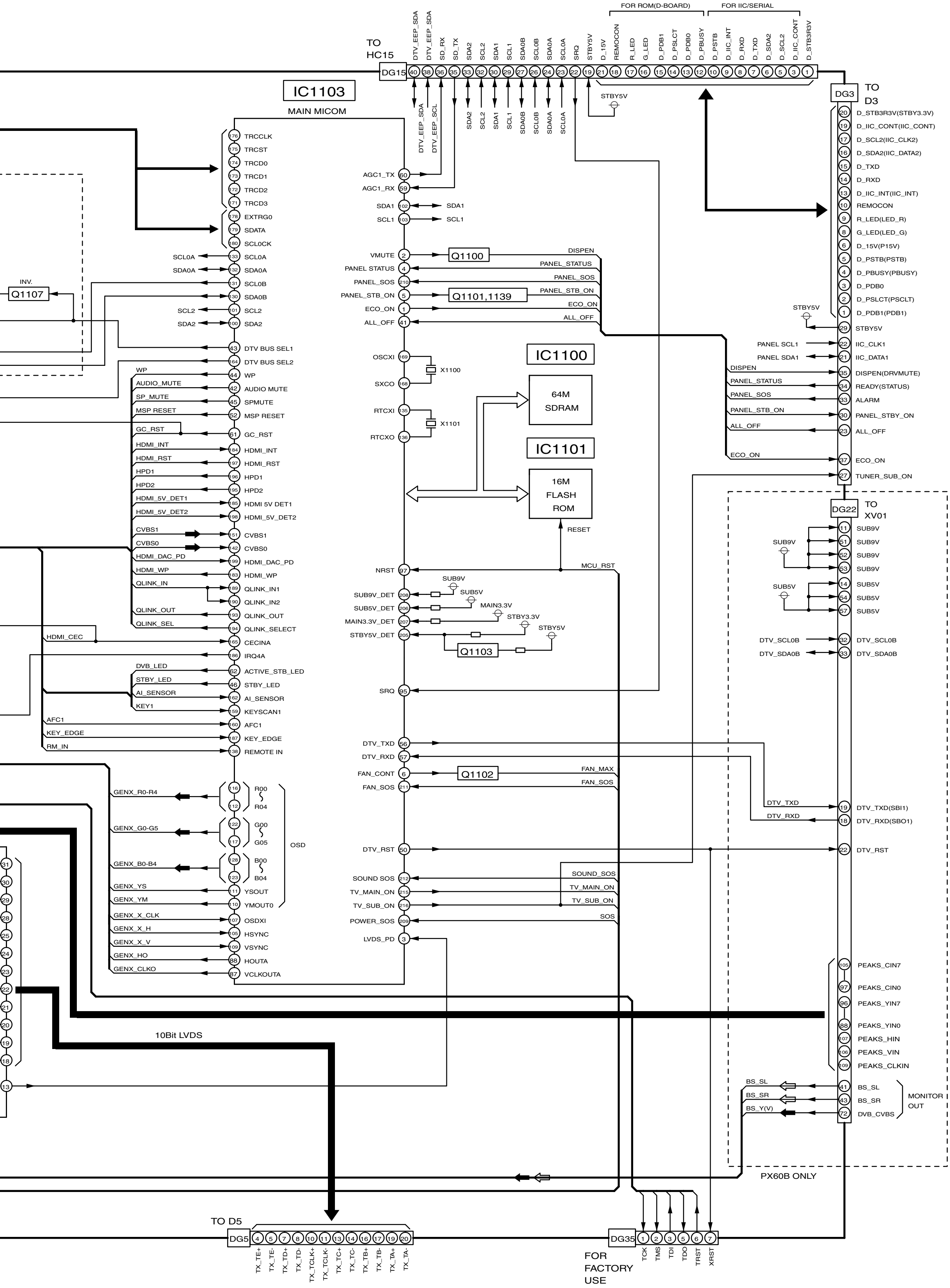

YBIN0-9,UBIN0-9
GC_RST
IC4019
10bit A/D(ADV7499)
78
RESET
10bit
110MHz
10bit
110MHz
10bit
110MHz
MATRIX
RGB
->YUV
3D/2D com
VPK
CHROMA
DEM.
COLOUR
DETECT
SW
Detection
Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2
NOISE LEVEL
SYNC
SEPA
CLK
7 - 10 13 14 91 - 94
YIN0-YIN9
22 - 29 41 42
UVIN0-UVIN9
30 - 33
RIN0-RIN3
NRST
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
REFCK_HDMI
TDI
TMS
TCK
TRST
JTAG
11
12
13
14
15
16
PORT-A
(ADV7499)
PORT-B
(FS&HDMI)
3D Y/C
SCL2
SDA2
SCL
SDA
XTAL 38
DCLK_IN 35
LLC1 36
HS 4
VS 99
REFCK_ADV
CLK0A
CLKIA
HSIA
VSIA
IC4037
GC5 PROCESSOR
DIGITAL
INPUT
I/F
RESIZE
MIX
NR
I/P CONV.
IC4032
MAIN 1.2V
2.5V
MAIN1.8V
MAIN1.2V
8 VIN
VOUT 1
5 CONT
IC4035
DDR 2.5V
3.3V
MAIN3.3V
DDR2.5V
8 VIN
VOUT 1
5 CONT
IC4038
128M DDR SDRAM
B_DDR_CLK
B_DDR_NCLK
CK
CK
A_DDR_CLK
A_DDR_NCLK

TH-50PV60E, TH-50PX60B
DG-Board (2 of 3) Block Diagram

14.19. DG-Board (3 of 3) Block Diagram

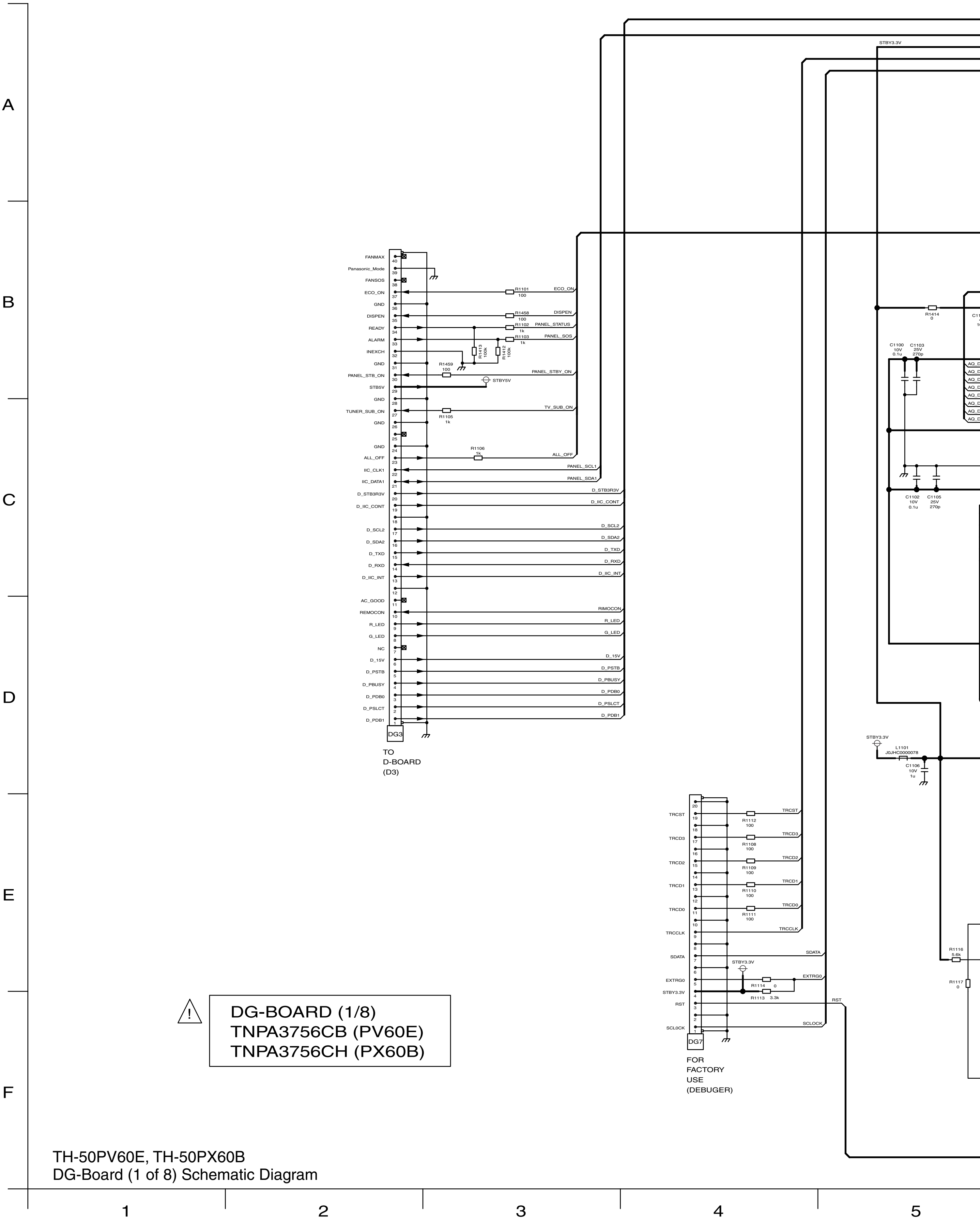

FOR
FACTORY
USE
(DEBUGER)
DG7
STBY3.3V
RST
SCL0CK
EXTRG0
SDATA
TRCCLK
TRCD0
TRCD1
TRCD2
TRCD3
TRCST
DG
DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
PX60B ONLY
DTV_SDA0B
IC1105
SWITCHING
PV60E ONLY
PANEL_SDA1
SDA1
DTV_SCL0B
PANEL_SCL1
SCL1
INV.
Q1106
PV60E ONLY
SUB3.3V
SDA0B
Q1110
SCL0B
Q1109
IC1106
SWITCHING
INV.
Q1107
PV60E ONLY
PX60B ONLY
IC1107
Q LINK SW
QLINK_AV3
QLINK_AV2
INV.
Q1138
INV.
Q1122
QLINK_SEL
Q1120
QLINK_OUT
STBY5V
Q1121
Q1117,Q1118
QLINK_IN
RST
WP
IC1102
EEPROM
SCL
SDA
WP
SCL0A
SDA0A
Q1137
TMS
Q4062
Q4061
TDI(FS)
Q4063
TDO
Q4064
STBY3.3V
D1119
Q1142,Q1143
HDMI_CEC
AFC1
KEY_EDGE
RM_IN
GENX_HO
GENX_CLKO
GENX_VIN
GENX_HIN
GENX_CLKIN
PORT_D
(OSD INPUT)
GENX_YS
GENX_YM
GENX_R0-R4
GENX_G0-G5
GENX_B0-B4
PORT_C
(PEAKS)
YIC0~YIC7
UVIC0~UVIC7
HSIC
VSIC
CLKIC
PX60B ONLY
PIXEL CONV.
CONVERTER
AI
GAMMA
OSD MIX
D/A 10bit
110MHz × 3
D/A 8bit
× 2
D/A OSD
CONT
PORT_E
(RGB OUT)
ROE0~ROE9
GOE0~GOE9
BOE0~BOE9
VSOE
HSOE
CLKOE
IC4037
GC5 PROCESSOR
LVDS
(SERIAL)
TTL
PARALLEL
DATA
TA-
TA+
TB-
TB+
TC-
TC+
TCLK-
TCLK+
TD-
TD+
TE-
TE+
/PDWN
TC5
TC4
CLKIN
IC4036
LVDS TRANSMITTER(10bit)
11
12
13
14
15
16

TH-50PV60E, TH-50PX60B
DG-Board Block (3 of 3) Diagram

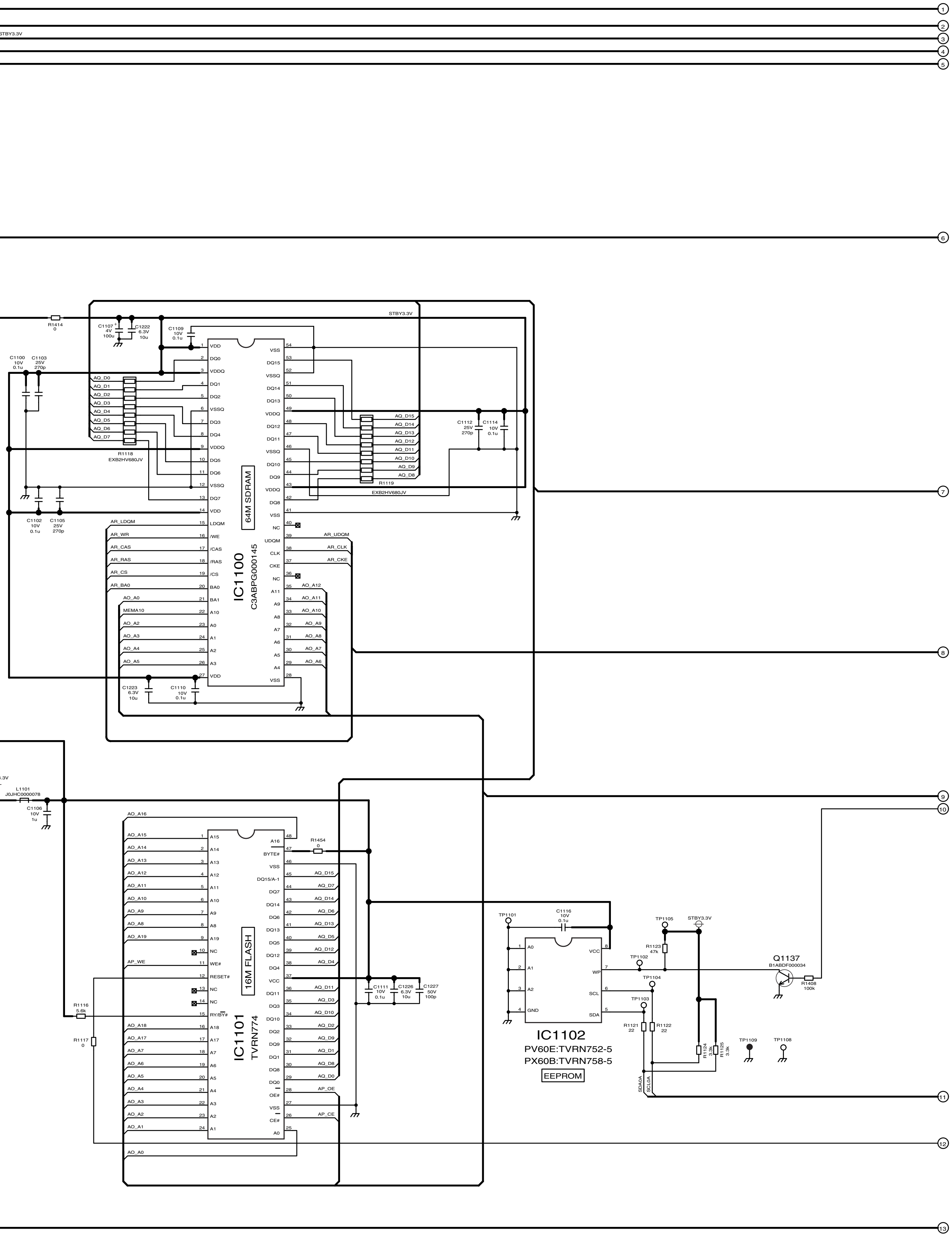

TO
HC15
DG15
40 38 36 35 33 32 30 29 27 26 24 23 22 19 21 18 17 16 15 14 13 12 10 9 8 7 6 5 3 1
DTV_EEP_SDA
DTV_EEP_SDA
SD_RX
SD_TX
SDA2
SCL2
SDA1
SCL1
SDA0B
SCL0B
SDA0A
SCL0A
SRQ
STBY5V
D_15V
REMOCON
R_LED
G_LED
D_PDB1
D_PSLCT
D_PDB0
D_PBUSY
D_PSTB
D_IIC_INT
D_RXD
D_TXD
D_SDA2
D_SCL2
D_IIC_CONT
D_STB3R3V
FOR ROM(D-BOARD)
FOR IIC/SERIAL
STBY5V
DTV_EEP_SDA
DTV_EEP_SCL
SDA2
SCL2
SDA1
SCL1
SDA0B
SCL0B
SDA0A
SCL0A
IC1103
MAIN MICOM
176 TRCCLK
175 TRCST
174 TRCD0
173 TRCD1
172 TRCD2
171 TRCD3
178 EXTRG0
179 SDATA
180 SCLOCK
SCL0A 133 SCL0A
SDA0A 132 SDA0A
131 SCL0B
130 SDA0B
SCL2 101 SCL2
SDA2 100 SDA2
INV.
Q1107
43 DTV BUS SEL1
64 DTV BUS SEL2
WP 44 WP
AUDIO_MUTE 42 AUDIO MUTE
SP_MUTE 45 SPMUTE
MSP RESET 52 MSP RESET
GC_RST 61 GC_RST
HDMI_INT 184 HDMI_INT
HDMI_RST 197 HDMI_RST
HPD1 196 HPD1
HPD2 195 HPD2
HDMI_5V_DET1 185 HDMI 5V DET1
HDMI_5V_DET2 198 HDMI_5V_DET2
CVBS1 151 CVBS1
CVBS0 142 CVBS0
HDMI_DAC_PD 199 HDMI_DAC_PD
HDMI_WP 183 HDMI_WP
QLINK_IN 189 QLINK_IN1
190 QLINK_IN2
QLINK_OUT 193 QLINK_OUT
QLINK_SEL 194 QLINK_SELECT
HDMI_CEC 165 CECINA
166 IRQ4A
DVB_LED 82 ACTIVE_STB_LED
STBY_LED 46 STBY_LED
AI_SENSOR 162 AI_SENSOR
KEY1 159 KEYSCAN1
AFC1 160 AFC1
KEY_EDGE 187 KEY_EDGE
RM_IN 138 REMOTE IN
GENX_R0-R4 116 R00 112 R04
GENX_G0-G5 122 G00 117 G05
GENX_B0-B4 128 B00 123 B04
OSD
GENX_YS 111 YSOUT
GENX_YM 110 YMOUT0
GENX_X_CLK 107 OSDXI
GENX_X_H 105 HSYNC
GENX_X_V 109 VSYNC
GENX_HO 88 HOUTA
GENX_CLKO 87 VCLKOUTA
AGC1_TX 60
AGC1_RX 59
SDA1 102 SDA1
SCL1 103 SCL1
VMUTE 2 Q1100 DISPEN
PANEL STATUS 4 PANEL_STATUS
PANEL_SOS 210 PANEL_SOS
PANEL_STB_ON 5 Q1101,1139 PANEL_STB_ON
ECO_ON 1 ECO_ON
ALL_OFF 41 ALL_OFF
OSCXI 169
X1100
SXCO 168
RTCXI 135
X1101
RTCXO 136
IC1100
64M
SDRAM
IC1101
16M
FLASH
ROM
RESET
NRST 97 MCU_RST
SUB9V
SUB5V
MAIN3.3V
STBY3.3V
STBY5V
SUB9V_DET 208
SUB5V_DET 206
MAIN3.3V_DET 207
STBY5V_DET 205
Q1103
SRQ 95
DTV_TXD 56
DTV_RXD 57
FAN_CONT 6 Q1102 FAN_MAX
FAN_SOS 211 FAN_SOS
DTV_RST 50
SOUND SOS 212 SOUND_SOS
TV_MAIN_ON 215 TV_MAIN_ON
TV_SUB_ON 216 TV_SUB_ON
POWER_SOS 209 SOS
LVDS_PD 3
31 30 29 28 25 24 23 22 21 20 19 18 13
10Bit LVDS
TO
D3
DG3
20 D_STB3R3V(STBY3.3V)
19 D_IIC_CONT(IIC_CONT)
17 D_SCL2(IIC_CLK2)
16 D_SDA2(IIC_DATA2)
15 D_TXD
14 D_RXD
13 D_IIC_INT(IIC_INT)
10 REMOCON
9 R_LED(LED_R)
8 G_LED(LED_G)
6 D_15V(P15V)
5 D_PSTB(PSTB)
4 D_PBUSY(PBUSY)
3 D_PDB0
2 D_PSLCT(PSCLT)
1 D_PDB1(PDB1)
STBY5V
29 STBY5V
PANEL SCL1 22 IIC_CLK1
PANEL SDA1 21 IIC_DATA1
DISPEN 35 DISPEN(DRVMUTE)
PANEL_STATUS 34 READY(STATUS)
PANEL_SOS 33 ALARM
PANEL_STB_ON 30 PANEL_STBY_ON
ALL_OFF 23 ALL_OFF
ECO_ON 37 ECO_ON
27 TUNER_SUB_ON
TO
XV01
DG22
SUB9V
11 SUB9V
51 SUB9V
52 SUB9V
53 SUB9V
SUB5V
14 SUB5V
54 SUB5V
57 SUB5V
DTV_SCL0B 32 DTV_SCL0B
DTV_SDA0B 33 DTV_SDA0B
DTV_TXD 19 DTV_TXD(SBI1)
DTV_RXD 18 DTV_RXD(SBO1)
22 DTV_RST
105 PEAKS_CIN7
97 PEAKS_CIN0
96 PEAKS_YIN7
88 PEAKS_YIN0
107 PEAKS_HIN
106 PEAKS_VIN
109 PEAKS_CLKIN
BS_SL 41 BS_SL
BS_SR 43 BS_SR
BS_Y(V) 72 DVB_CVBS
MONITOR
OUT
PX60B ONLY
TO D5
DG5
4 5 7 8 10 11 13 14 16 17 19 20
TX_TE+
TX_TE-
TX_TD+
TX_TD-
TX_TCLK+
TX_TCLK-
TX_TC+
TX_TC-
TX_TB+
TX_TB-
TX_TA+
TX_TA-
DG35
1 2 3 5 6 7
TCK
TMS
TDI
TDO
TRST
XRST
FOR
FACTORY
USE

TH-50PV60E, TH-50PX60B
DG-Board (3 of 3) Block Diagram

14.20. DG-Board (1 of 8) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
STBY3.3V
FANMAX 40
Panasonic_Mode 39
FANSOS 38
ECO_ON 37
GND 36
DISPEN 35
READY 34
ALARM 33
INEXCH 32
GND 31
PANEL_STB_ON 30
STB5V 29
GND 28
TUNER_SUB_ON 27
GND 26
25
GND 24
ALL_OFF 23
IIC_CLK1 22
IIC_DATA1 21
D_STB3R3V 20
D_IIC_CONT 19
18
D_SCL2 17
D_SDA2 16
D_TXD 15
D_RXD 14
D_IIC_INT 13
12
AC_GOOD 11
REMOCON 10
R_LED 9
G_LED 8
NC 7
D_15V 6
D_PSTB 5
D_PBUSY 4
D_PDB0 3
D_PSLCT 2
D_PDB1 1
DG3
TO
D-BOARD
(D3)
R1101 100
ECO_ON
R1458 100
DISPEN
R1102 1k
PANEL_STATUS
R1103 1k
PANEL_SOS
R1413 100k
R1412 100k
R1459 100
PANEL_STBY_ON
STBY5V
R1105 1k
TV_SUB_ON
R1106 1k
ALL_OFF
PANEL_SCL1
PANEL_SDA1
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
RIMOCON
R_LED
G_LED
D_15V
D_PSTB
D_PBUSY
D_PDB0
D_PSLCT
D_PDB1
R1414 0
C11
C1100 10V 0.1u
C1103 25V 270p
AQ_D
AQ_D
AQ_D
AQ_D
AQ_D
AQ_D
AQ_D
AQ_D
C1102 10V 0.1u
C1105 25V 270p
STBY3.3V
L1101 J0JHC0000078
C1106 10V 1u
20
TRCST 19
18
TRCD3 17
16
TRCD2 15
14
TRCD1 13
12
TRCD0 11
10
TRCCLK 9
8
SDATA 7
6
EXTRG0 5
STBY3.3V 4
RST 3
2
SCL0CK 1
DG7
FOR
FACTORY
USE
(DEBUGER)
R1112 100
TRCST
R1108 100
TRCD3
R1109 100
TRCD2
R1110 100
TRCD1
R1111 100
TRCD0
TRCCLK
SDATA
STBY3.3V
R1114 0
R1113 3.3k
EXTRG0
RST
SCLOCK
R1116 5.6k
R1117 0

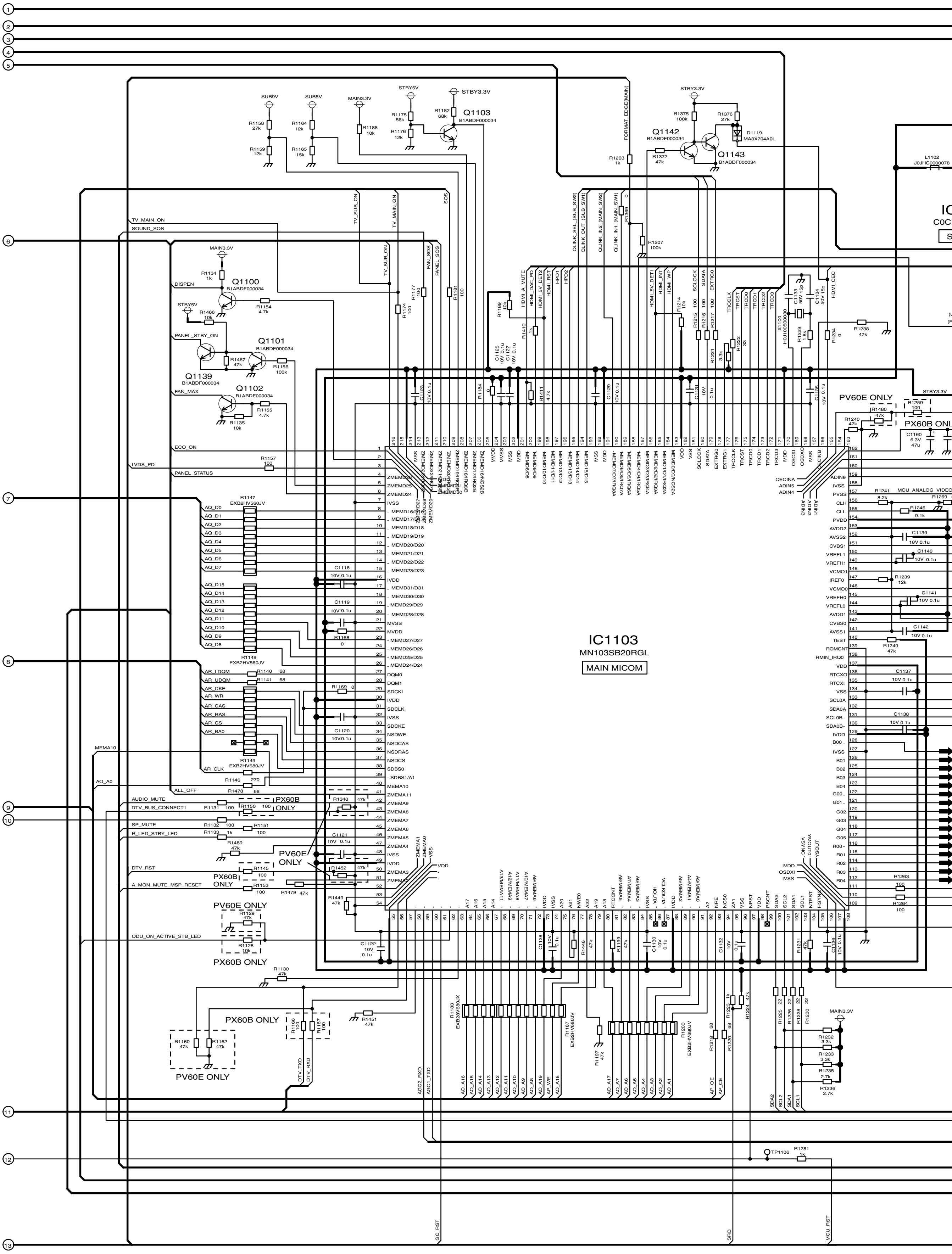
⚠ DG-BOARD (1/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)


STBY3.3V
R1414 0
C1107 4V 100u
C1222 6.3V 10u
C1109 10V 0.1u
C1100 10V 0.1u
C1103 25V 270p
AQ_D0
AQ_D1
AQ_D2
AQ_D3
AQ_D4
AQ_D5
AQ_D6
AQ_D7
R1118 EXB2HV680JV
C1102 10V 0.1u
C1105 25V 270p
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VDDQ
DQ5
DQ6
VSSQ
DQ7
VDD
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10
A0
A1
A2
A3
VDD
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VDDQ
DQ8
VSS
NC
UDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
64M SDRAM
IC1100
C3ABPG000145
AQ_D15
AQ_D14
AQ_D13
AQ_D12
AQ_D11
AQ_D10
AQ_D9
AQ_D8
R1119 EXB2HV680JV
C1112 25V 270p
C1114 10V 0.1u
AR_LDQM
AR_WR
AR_CAS
AR_RAS
AR_CS
AR_BA0
AO_A0
MEMA10
AO_A2
AO_A3
AO_A4
AO_A5
AR_UDQM
AR_CLK
AR_CKE
AO_A12
AO_A11
AO_A10
AO_A9
AO_A8
AO_A7
AO_A6
C1223 6.3V 10u
C1110 10V 0.1u
L1101 J0JHC0000078
C1106 10V 1u
AO_A16
AO_A15
AO_A14
AO_A13
AO_A12
AO_A11
AO_A10
AO_A9
AO_A8
AO_A19
AP_WE
AO_A18
AO_A17
AO_A7
AO_A6
AO_A5
AO_A4
AO_A3
AO_A2
AO_A1
AO_A0
A15
A14
A13
A12
A11
A10
A9
A8
A19
NC
WE#
RESET#
NC
NC
RY/BY#
A18
A17
A7
A6
A5
A4
A3
A2
A1
A16
BYTE#
VSS
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VCC
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE#
VSS
CE#
A0
16M FLASH
IC1101
TVRN774
R1454 0
AQ_D15
AQ_D7
AQ_D14
AQ_D6
AQ_D13
AQ_D5
AQ_D12
AQ_D4
AQ_D11
AQ_D3
AQ_D10
AQ_D2
AQ_D9
AQ_D1
AQ_D8
AQ_D0
AP_OE
AP_CE
C1111 10V 0.1u
C1226 6.3V 10u
C1227 50V 100p
R1116 5.6k
R1117 0
TP1101
C1116 10V 0.1u
TP1105
STBY3.3V
R1123 47k
TP1102
TP1104
TP1103
A0
A1
A2
GND
VCC
WP
SCL
SDA
IC1102
PV60E:TVRN752-5
PX60B:TVRN758-5
EEPROM
R1121 22
R1122 22
R1124 3.3k
R1125 3.3k
SDA0A
SCL0A
TP1109
TP1108
Q1137
B1ABDF000034
R1408 100k
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬

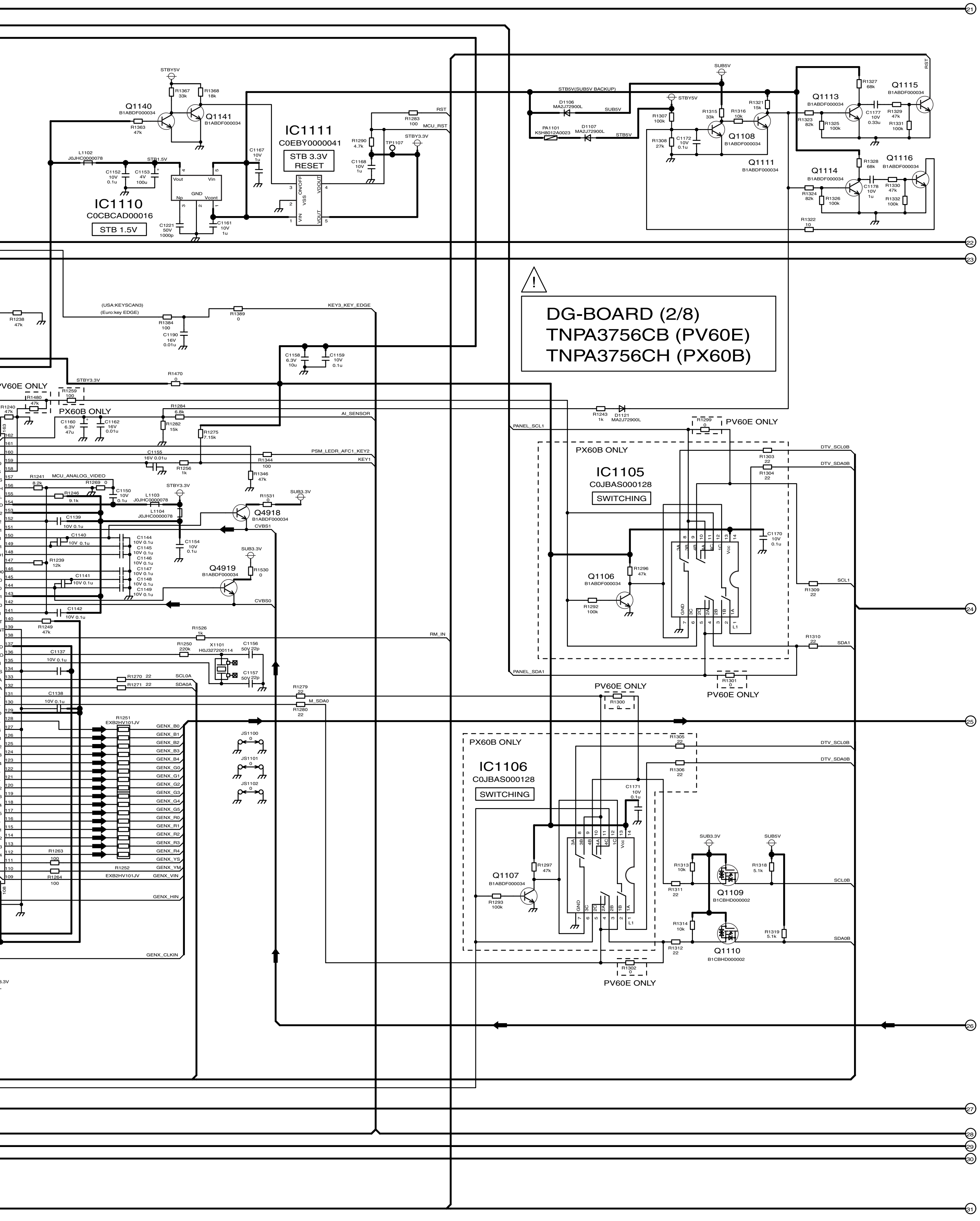
TH-50PV60E, TH-50PX60B DG-Board (1 of 8) Schematic Diagram

5 6 7 8 9

14.21. DG-Board (2 of 8) Schematic Diagram


IC1103
MN103SB20RGL
MAIN MICOM
Q1100
B1ABDF000034
Q1101
B1ABDF000034
Q1102
B1ABDF000034
Q1103
B1ABDF000034
Q1139
B1ABDF000034
Q1142
B1ABDF000034
Q1143
B1ABDF000034
D1119
MA3X704A0L
L1102
J0JHC0000078
X1100
H0J100500030
R1147
EXB2HV560JV
R1148
EXB2HV560JV
R1149
EXB2HV680JV
R1183
EXB2HV680JV
R1187
EXB2HV680JV
R1200
EXB2HV680JV
SUB9V
SUB5V
MAIN3.3V
STBY5V
STBY3.3V
TV_MAIN_ON
SOUND_SOS
DISPEN
PANEL_STBY_ON
FAN_MAX
ECO_ON
LVDS_PD
PANEL_STATUS
TV_SUB_ON
FAN_SOS
PANEL_SOS
SOS
FORMAT_EDGE(MAIN)
QLINK_SEL_(SUB_SW2)
QLINK_OUT_(SUB_SW1)
QLINK_IN2_(MAIN_SW2)
QLINK_IN1_(MAIN_SW1)
HDMI_A_MUTE
HDMI_DAC_PD
HDMI_5V_DET2
HDMI_RST
HPD1
HPD2
HDMI_5V_DET1
HDMI_INT
HDMI_WP
SCLOCK
SDATA
EXTRG0
TRCCLK
TRCST
TRCD0
TRCD1
TRCD2
TRCD3
HDMI_CEC
AQ_D0
AQ_D1
AQ_D2
AQ_D3
AQ_D4
AQ_D5
AQ_D6
AQ_D7
AQ_D15
AQ_D14
AQ_D13
AQ_D12
AQ_D11
AQ_D10
AQ_D9
AQ_D8
AR_LDQM
AR_UDQM
AR_CKE
AR_WR
AR_CAS
AR_RAS
AR_CS
AR_BA0
AR_CLK
MEMA10
AO_A0
ALL_OFF
AUDIO_MUTE
DTV_BUS_CONNECT1
SP_MUTE
R_LED_STBY_LED
DTV_RST
A_MON_MUTE_MSP_RESET
ODU_ON_ACTIVE_STB_LED
PV60E ONLY
PX60B ONLY
DTV_TXD
DTV_RXD
AGC2_RXD
AGC1_TXD
AO_A16
AO_A15
AO_A14
AO_A13
AO_A12
AO_A11
AO_A10
AO_A9
AO_A8
AO_A19
AP_WE
AO_A18
AO_A17
AO_A7
AO_A6
AO_A5
AO_A4
AO_A3
AO_A2
AO_A1
AP_OE
AP_CE
SDA2
SCL2
SDA1
SCL1
TP1106
GC_RST
SIRQ
MCU_RST
MCU_ANALOG_VIDEO
1
2
3
4
5
6
7
8
9
10
11
12
13
10
11
12
13
14

TH-50PV60E, TH-50PX60B DG-Board (2 of 8) Schematic Diagram

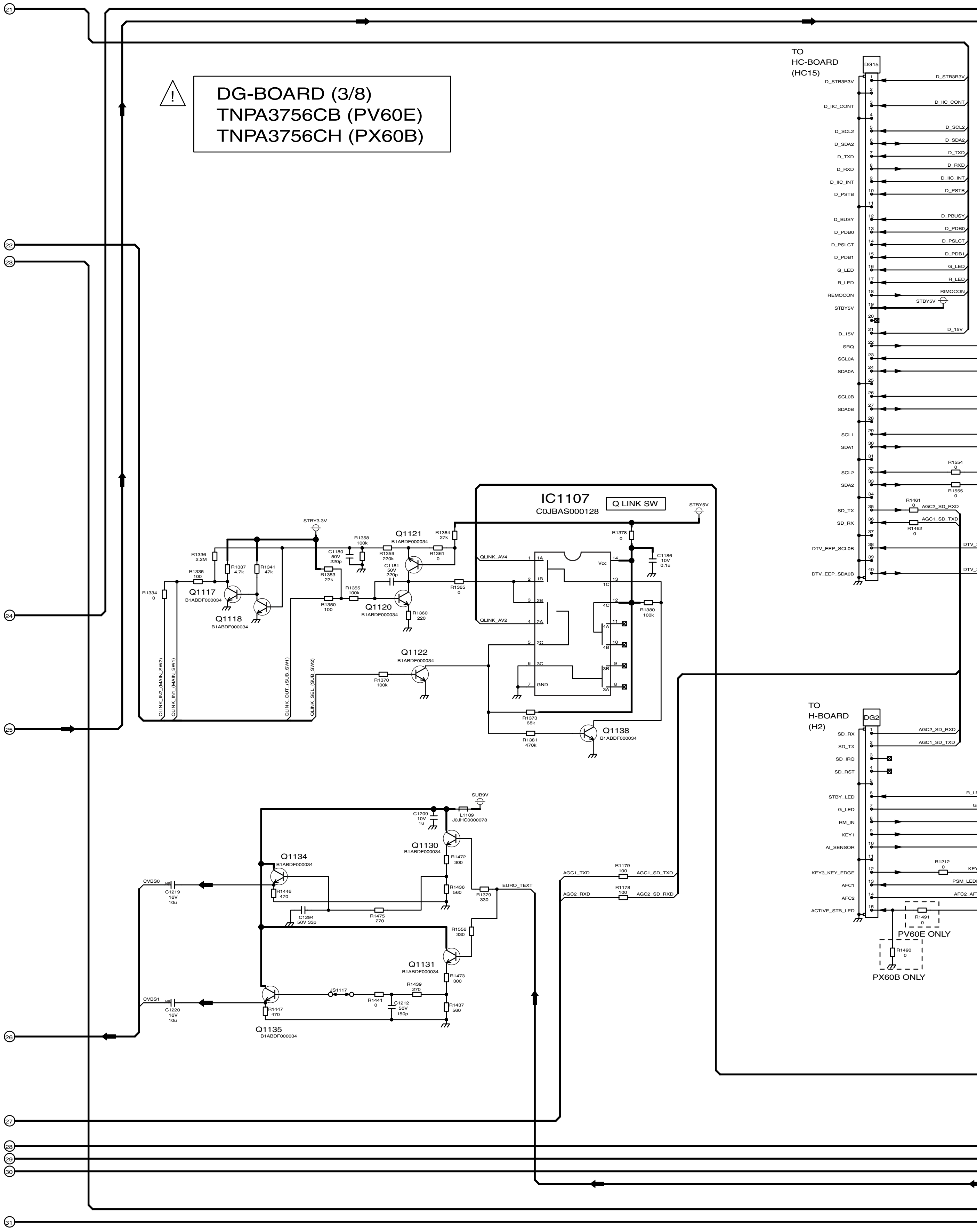


DG-BOARD (2/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
IC1110
C0CBCAD00016
STB 1.5V
IC1111
C0EBY0000041
STB 3.3V
RESET
Q1140
Q1141
B1ABDF000034
STBY5V
STB1.5V
L1102
J0JHC0000078
TP1107
STBY3.3V
RST
MCU_RST
SUB5V
STB5V(SUB5V BACKUP)
STBY5V
D1106
MA2J72900L
D1107
MA2J72900L
PA1101
K5H8012A0023
STB5V
Q1108
Q1111
Q1113
Q1114
Q1115
Q1116
KEY3_KEY_EDGE
(USA:KEYSCAN3)
(Euro:key EDGE)
PV60E ONLY
PX60B ONLY
STBY3.3V
AI_SENSOR
PSM_LEDR_AFC1_KEY2
KEY1
MCU_ANALOG_VIDEO
Q4918
Q4919
CVBS1
CVBS0
SUB3.3V
L1103
L1104
J0JHC0000078
X1101
H0J327200114
RM_IN
SCL0A
SDA0A
M_SDA0
R1251
EXB2HV101JV
R1252
EXB2HV101JV
GENX_B0
GENX_B1
GENX_B2
GENX_B3
GENX_B4
GENX_G0
GENX_G1
GENX_G2
GENX_G3
GENX_G4
GENX_G5
GENX_R0
GENX_R1
GENX_R2
GENX_R3
GENX_R4
GENX_YS
GENX_YM
GENX_VIN
GENX_HIN
GENX_CLKIN
JS1100
JS1101
JS1102
PANEL_SCL1
PANEL_SDA1
R1243
D1121
MA2J72900L
IC1105
C0JBAS000128
SWITCHING
Q1106
B1ABDF000034
DTV_SCL0B
DTV_SDA0B
SCL1
SDA1
IC1106
C0JBAS000128
SWITCHING
Q1107
B1ABDF000034
Q1109
B1CBHD000002
Q1110
B1CBHD000002
SCL0B
SDA0B
21
22
23
24
25
26
27
28
29
30
31

TH-50PV60E, TH-50PX60B DG-Board (2 of 8) Schematic Diagram

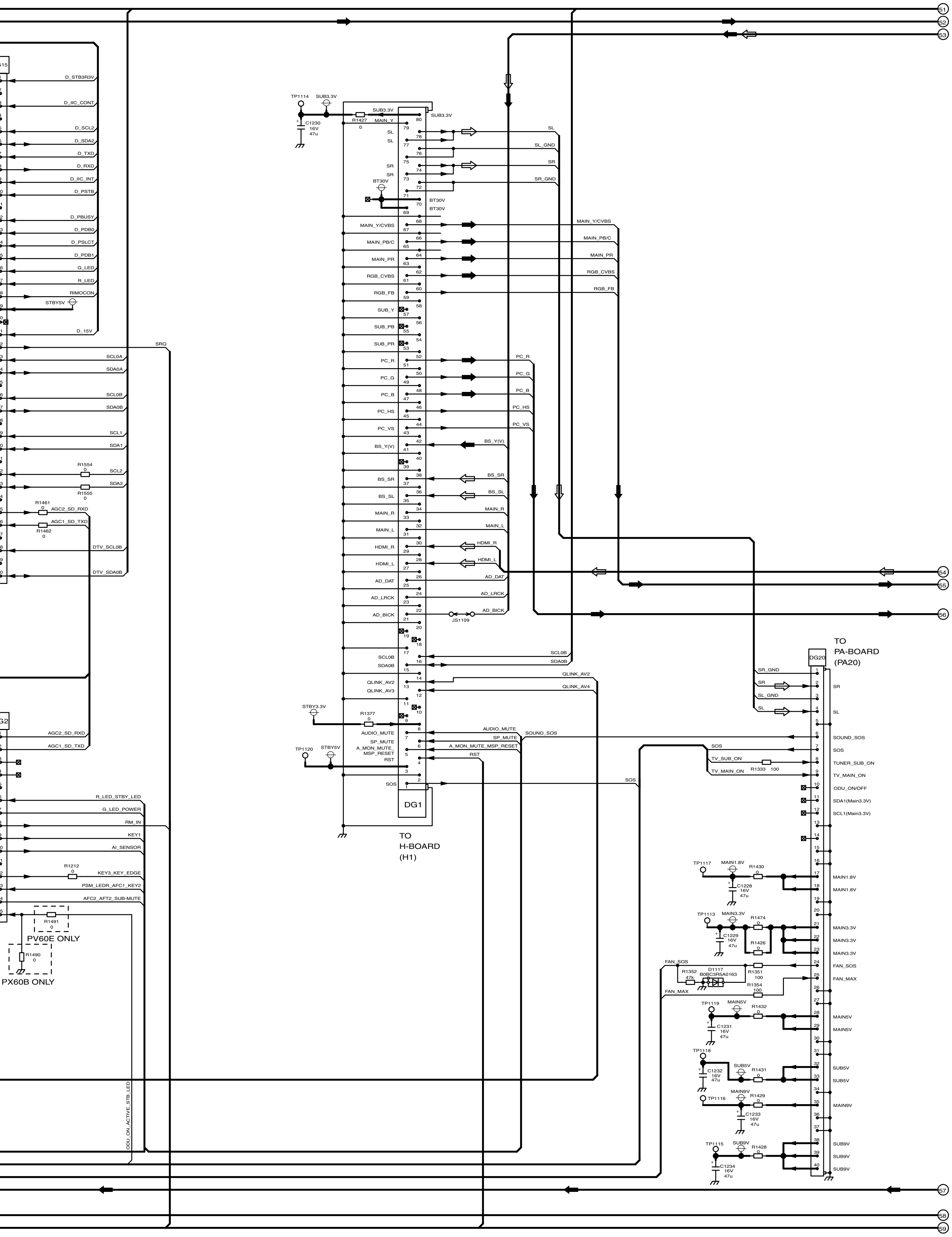
14 15 16 17 18

14.22. DG-Board (3 of 8) Schematic Diagram


DG-BOARD (3/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
21
22
23
24
25
26
27
28
29
30
31
TO
HC-BOARD
(HC15)
DG15
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
D_PSTB
D_BUSY
D_PDB0
D_PSLCT
D_PDB1
G_LED
R_LED
REMOCON
RIMOCON
STBY5V
D_15V
SRQ
SCL0A
SDA0A
SCL0B
SDA0B
SCL1
SDA1
SCL2
SDA2
SD_TX
SD_RX
DTV_EEP_SCL0B
DTV_EEP_SDA0B
R1554
0
R1555
0
R1461
0
AGC2_SD_RXD
AGC1_SD_TXD
R1462
0
IC1107
C0JBAS000128
Q LINK SW
STBY5V
R1378
0
C1186
10V
0.1u
Vcc
QLINK_AV4
QLINK_AV2
1A
1B
1C
2A
2B
2C
3A
3B
3C
4A
4B
4C
GND
R1380
100k
STBY3.3V
R1336
2.2M
R1335
100
R1334
0
R1337
4.7k
R1341
47k
Q1117
B1ABDF000034
Q1118
B1ABDF000034
C1180
50V
220p
R1358
100k
R1353
22k
Q1121
B1ABDF000034
R1359
220k
C1181
50V
220p
R1364
27k
R1361
0
R1365
0
R1355
100k
R1350
100
Q1120
B1ABDF000034
R1360
220
Q1122
B1ABDF000034
R1370
100k
QLINK_IN2_(MAIN_SW2)
QLINK_IN1_(MAIN_SW1)
QLINK_OUT_(SUB_SW1)
QLINK_SEL_(SUB_SW2)
R1373
68k
R1381
470k
Q1138
B1ABDF000034
TO
H-BOARD
(H2)
DG2
SD_RX
SD_TX
SD_IRQ
SD_RST
STBY_LED
G_LED
RM_IN
KEY1
AI_SENSOR
KEY3_KEY_EDGE
AFC1
AFC2
ACTIVE_STB_LED
AGC2_SD_RXD
AGC1_SD_TXD
R1212
0
PSM_LED
R1491
0
PV60E ONLY
R1490
0
PX60B ONLY
SUB9V
C1209
10V
1u
L1109
J0JHC0000078
Q1130
B1ABDF000034
R1472
300
Q1134
B1ABDF000034
CVBS0
C1219
16V
10u
R1446
470
R1436
560
R1379
330
EURO_TEXT
C1294
50V 33p
R1475
270
R1556
330
Q1131
B1ABDF000034
R1473
300
R1439
270
CVBS1
C1220
16V
10u
JS1117
R1441
0
C1212
50V
150p
R1437
560
R1447
470
Q1135
B1ABDF000034
AGC1_TXD
AGC2_RXD
R1179
100
R1178
100
AGC1_SD_TXD
AGC2_SD_RXD

TH-50PV60E, TH-50PX60B DG-Board (3 of 8) Schematic Diagram

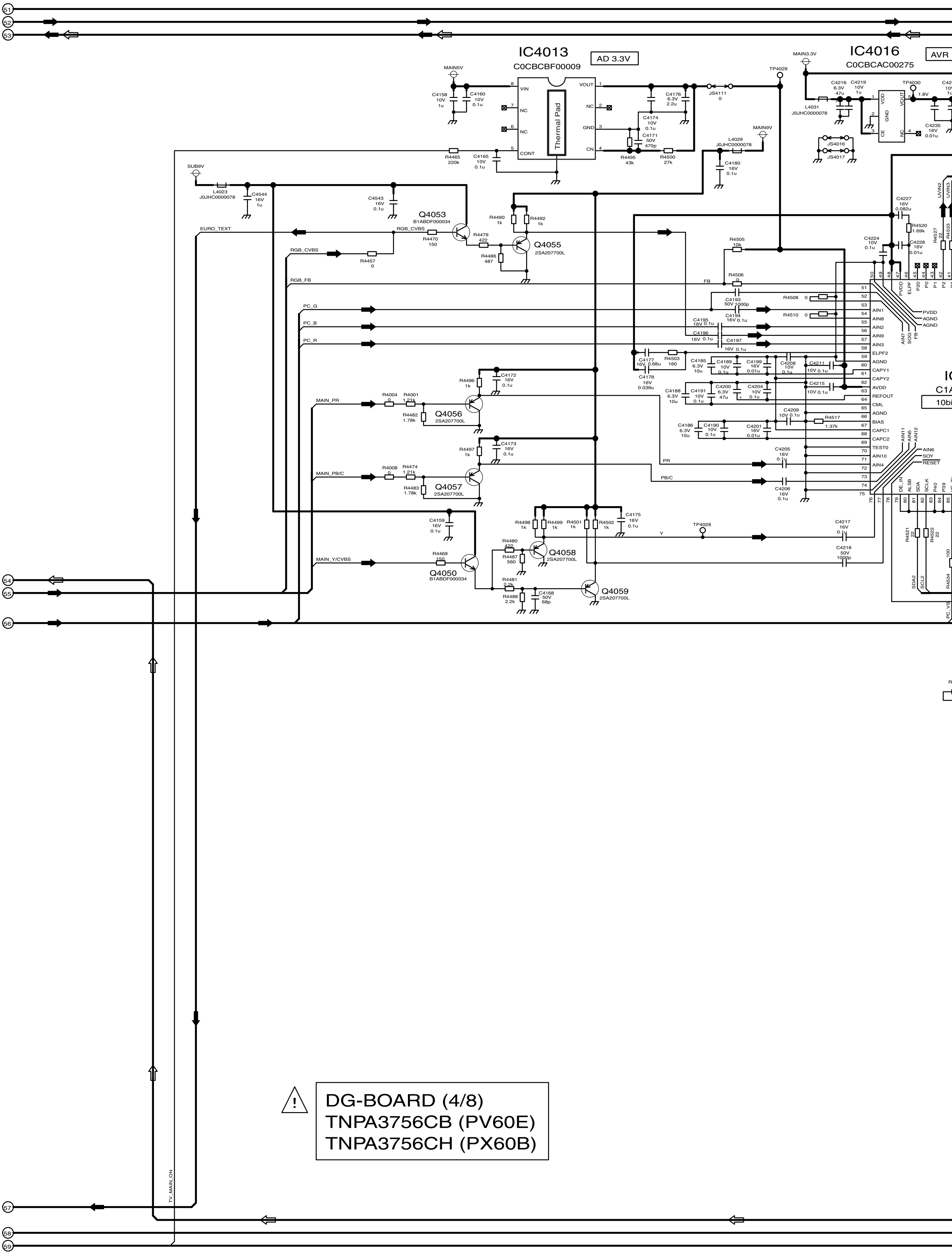
19 20 21 22 23


DG1
TO
H-BOARD
(H1)
DG20
TO
PA-BOARD
(PA20)
TP1114
SUB3.3V
C1230
16V
47u
R1427
0
MAIN_Y
SUB3.3V
SL
SL_GND
SR
SR_GND
BT30V
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
RGB_CVBS
RGB_FB
SUB_Y
SUB_PB
SUB_PR
PC_R
PC_G
PC_B
PC_HS
PC_VS
BS_Y(V)
BS_SR
BS_SL
MAIN_R
MAIN_L
HDMI_R
HDMI_L
AD_DAT
AD_LRCK
AD_BICK
JS1109
SCL0B
SDA0B
QLINK_AV2
QLINK_AV3
QLINK_AV4
STBY3.3V
R1377
0
AUDIO_MUTE
SP_MUTE
A_MON_MUTE_MSP_RESET
MSP_RESET
RST
SOS
SOUND_SOS
TP1120
STBY5V
SR_GND
SL_GND
TV_SUB_ON
TV_MAIN_ON
R1333 100
TUNER_SUB_ON
ODU_ON/OFF
SDA1(Main3.3V)
SCL1(Main3.3V)
TP1117
MAIN1.8V
R1430
0
C1228
16V
47u
TP1113
MAIN3.3V
R1474
0
C1229
16V
47u
R1426
0
FAN_SOS
R1352
47k
D1117
B0BC3R5A0163
R1351
100
R1354
100
FAN_MAX
TP1119
MAIN5V
R1432
0
C1231
16V
47u
TP1118
C1232
16V
47u
SUB5V
R1431
0
MAIN9V
TP1116
R1429
0
C1233
16V
47u
TP1115
SUB9V
R1428
0
C1234
16V
47u
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
D_PSTB
D_PBUSY
D_PDB0
D_PSLCT
D_PDB1
G_LED
R_LED
RIMOCON
STBY5V
D_15V
SRQ
SCL0A
SDA0A
SCL0B
SDA0B
SCL1
SDA1
R1554
0
SCL2
SDA2
R1555
0
R1461
0
AGC2_SD_RXD
AGC1_SD_TXD
R1462
0
DTV_SCL0B
DTV_SDA0B
AGC2_SD_RXD
AGC1_SD_TXD
R_LED_STBY_LED
G_LED_POWER
RM_IN
KEY1
AI_SENSOR
R1212
0
KEY3_KEY_EDGE
PSM_LEDR_AFC1_KEY2
AFC2_AFT2_SUB-MUTE
R1491
0
PV60E ONLY
R1490
0
PX60B ONLY
ODU_ON_ACTIVE_STB_LED
(51)
(52)
(53)
(54)
(55)
(56)
(57)
(58)
(59)

TH-50PV60E, TH-50PX60B DG-Board (3 of 8) Schematic Diagram

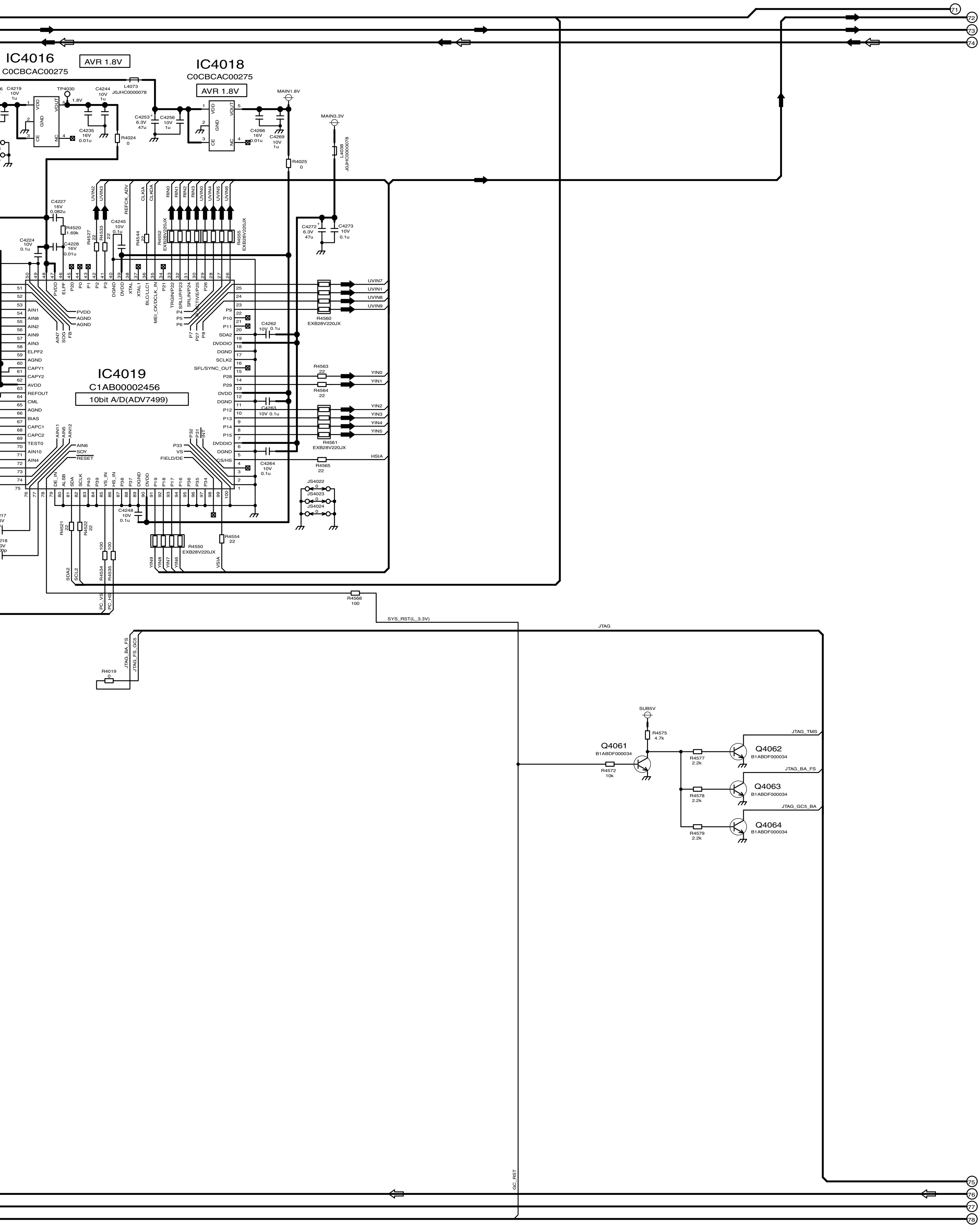
23 24 25 26 27

14.23. DG-Board (4 of 8) Schematic Diagram


51
52
53
54
55
56
57
58
59
IC4013
C0CBCBF00009
AD 3.3V
MAIN5V
VIN
NC
NC
CONT
VOUT
NC
GND
CN
Thermal Pad
C4158 10V 1u
C4160 10V 0.1u
C4165 10V 0.1u
R4465 220k
C4176 6.3V 2.2u
C4174 10V 0.1u
C4171 50V 470p
R4495 43k
R4500 27k
JS4111 0
L4029 J0JHC0000078
MAIN9V
C4180 16V 0.1u
TP4029
IC4016
C0CBCAC00275
AVR
MAIN3.3V
C4216 6.3V 47u
C4219 10V 1u
L4031 J0JHC0000078
TP4030
1.8V
VDD
VOUT
GND
CE
NC
C4235 16V 0.01u
JS4016
JS4017
SUB9V
L4023 J0JHC0000078
C4544 16V 1u
C4543 16V 0.1u
Q4053
B1ABDF000034
R4470 150
R4479 422
R4486 487
R4490 1k
R4492 1k
Q4055
2SA2077O0L
EURO_TEXT
RGB_CVBS
R4457 0
RGB_FB
PC_G
PC_B
PC_R
MAIN_PR
R4004 0
R4001 1.21k
R4482 1.78k
R4496 1k
C4172 16V 0.1u
Q4056
2SA2077O0L
MAIN_PB/C
R4008 0
R4474 1.21k
R4483 1.78k
R4497 1k
C4173 16V 0.1u
Q4057
2SA2077O0L
C4159 16V 0.1u
MAIN_Y/CVBS
R4469 150
Q4050
B1ABDF000034
R4498 1k
R4499 1k
R4501 1k
R4502 1k
C4175 16V 0.1u
R4480 422
R4487 560
Q4058
2SA2077O0L
R4481 2.2k
R4488 2.2k
C4168 50V 68p
Q4059
2SA2077O0L
TP4028
Y
PR
PB/C
FB
R4505 10k
R4506 0
C4193 50V 1000p
C4194 16V 0.1u
C4195 16V 0.1u
C4196 16V 0.1u
C4197 16V 0.1u
R4508 0
R4510 0
C4177 16V 0.68u
R4503 160
C4178 16V 0.039u
C4185 6.3V 10u
C4189 10V 0.1u
C4199 16V 0.01u
C4208 10V 0.1u
C4211 10V 0.1u
C4215 10V 0.1u
C4188 6.3V 10u
C4191 10V 0.1u
C4200 6.3V 47u
C4204 10V 0.1u
C4209 10V 0.1u
R4517 1.37k
C4186 6.3V 10u
C4190 10V 0.1u
C4201 16V 0.01u
C4205 16V 0.1u
C4206 16V 0.1u
C4217 16V 0.1u
C4218 50V 1000p
C4227 16V 0.082u
R4520 1.69k
C4224 10V 0.1u
C4228 16V 0.01u
AIN1
AIN8
AIN2
AIN9
AIN3
ELPF2
AGND
CAPY1
CAPY2
AVDD
REFOUT
CML
AGND
BIAS
CAPC1
CAPC2
TEST0
AIN10
AIN4
PVDD
AGND
AGND
AIN7
SOG
FB
AIN11
AIN5
AIN12
AIN6
SOY
RESET
PVDD
ELPF
P20
P0
P1
P2
DE_IN
ALSB
SDA
SCLK
P40
P39
UVIN2
UVIN3
R4527
R4533
R4521 22
R4522 22
R4534
SDA2
SCL2
PC_VS
IC
C1A
10bit
TV_MAIN_ON
⚠
DG-BOARD (4/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (4 of 8) Schematic Diagram

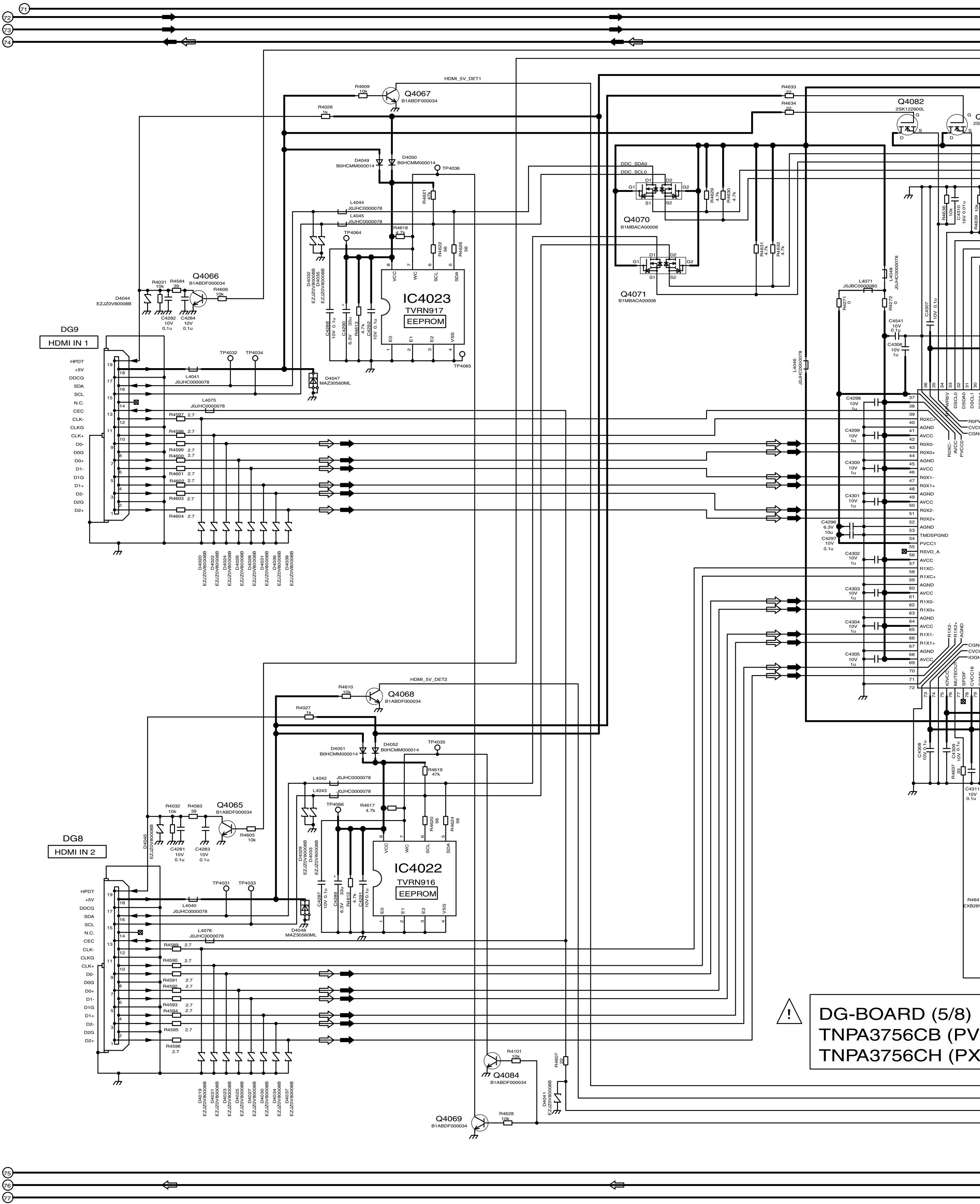
28 29 30 31 32


IC4016
C0CBCAC00275
AVR 1.8V
IC4018
C0CBCAC00275
AVR 1.8V
IC4019
C1AB00002456
10bit A/D(ADV7499)
TP4030
C4219 10V 1u
C4244 10V 1u
L4073 J0JHC0000078
C4235 16V 0.01u
R4024 0
C4253 6.3V 47u
C4256 10V 1u
C4266 16V 0.01u
C4269 10V 1u
MAIN1.8V
MAIN3.3V
R4025 0
L4038 J0JHC0000078
C4227 16V 0.082u
R4520 1.69k
C4224 10V 0.1u
C4228 16V 0.01u
R4527 22
R4533 22
C4245 10V 0.1u
R4544
R4552 EXB28V220JX
R4555 EXB28V220JX
C4272 6.3V 47u
C4273 10V 0.1u
UVIN2
UVIN3
REFCK_ADV
CLKIA
CLKOA
RIN0
RIN1
RIN2
RIN3
UVIN0
UVIN4
UVIN5
UVIN6
UVIN7
UVIN1
UVIN8
UVIN9
R4560 EXB28V220JX
C4262 10V 0.1u
R4563 22
R4564 22
YIN0
YIN1
C4263 10V 0.1u
YIN2
YIN3
YIN4
YIN5
R4561 EXB28V220JX
HSIA
R4565 22
C4264 10V 0.1u
JS4022 0
JS4023 0
JS4024 0
C4248 10V 0.1u
R4521 22
R4522 22
R4534 100
R4535 100
R4550 EXB28V220JX
R4554 22
YIN9
YIN8
YIN7
YIN6
VSIA
SDA2
SCL2
PC_VS
PC_HS
R4568 100
SYS_RST(L_3.3V)
JTAG
R4019 0
JTAG_BA_FS
JTAG_FS_GC5
SUB5V
R4575 4.7k
Q4061 B1ABDF000034
R4572 10k
Q4062 B1ABDF000034
Q4063 B1ABDF000034
Q4064 B1ABDF000034
R4577 2.2k
R4578 2.2k
R4579 2.2k
JTAG_TMS
JTAG_BA_FS
JTAG_GC5_BA
GC_RST
71
72
73
74
75
76
77
78

TH-50PV60E, TH-50PX60B DG-Board (4 of 8) Schematic Diagram

32	33	34	35	36

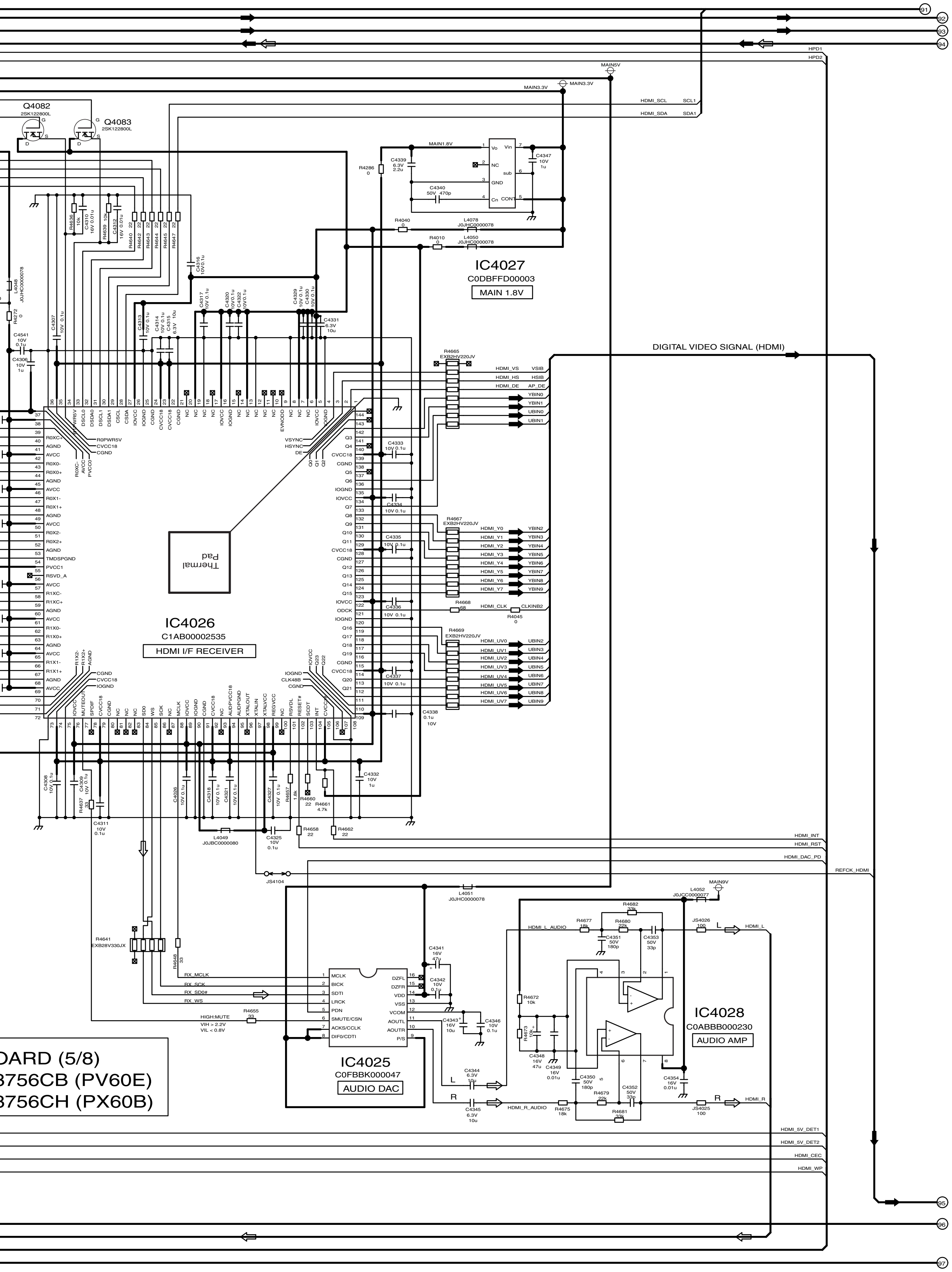
14.24. DG-Board (5 of 8) Schematic Diagram


DG9
HDMI IN 1
DG8
HDMI IN 2
IC4023
TVRN917
EEPROM
IC4022
TVRN916
EEPROM
Q4066
Q4065
Q4067
Q4068
Q4069
Q4070
Q4071
Q4082
Q4084
HDMI_5V_DET1
HDMI_5V_DET2
DDC_SDA0
DDC_SCL0
HPDT
+5V
DDCG
SDA
SCL
N.C.
CEC
CLK-
CLKG
CLK+
D0-
D0G
D0+
D1-
D1G
D1+
D2-
D2G
D2+

DG-BOARD (5/8)
TNPA3756CB (PV
TNPA3756CH (PX

TH-50PV60E, TH-50PX60B DG-Board (5 of 8) Schematic Diagram

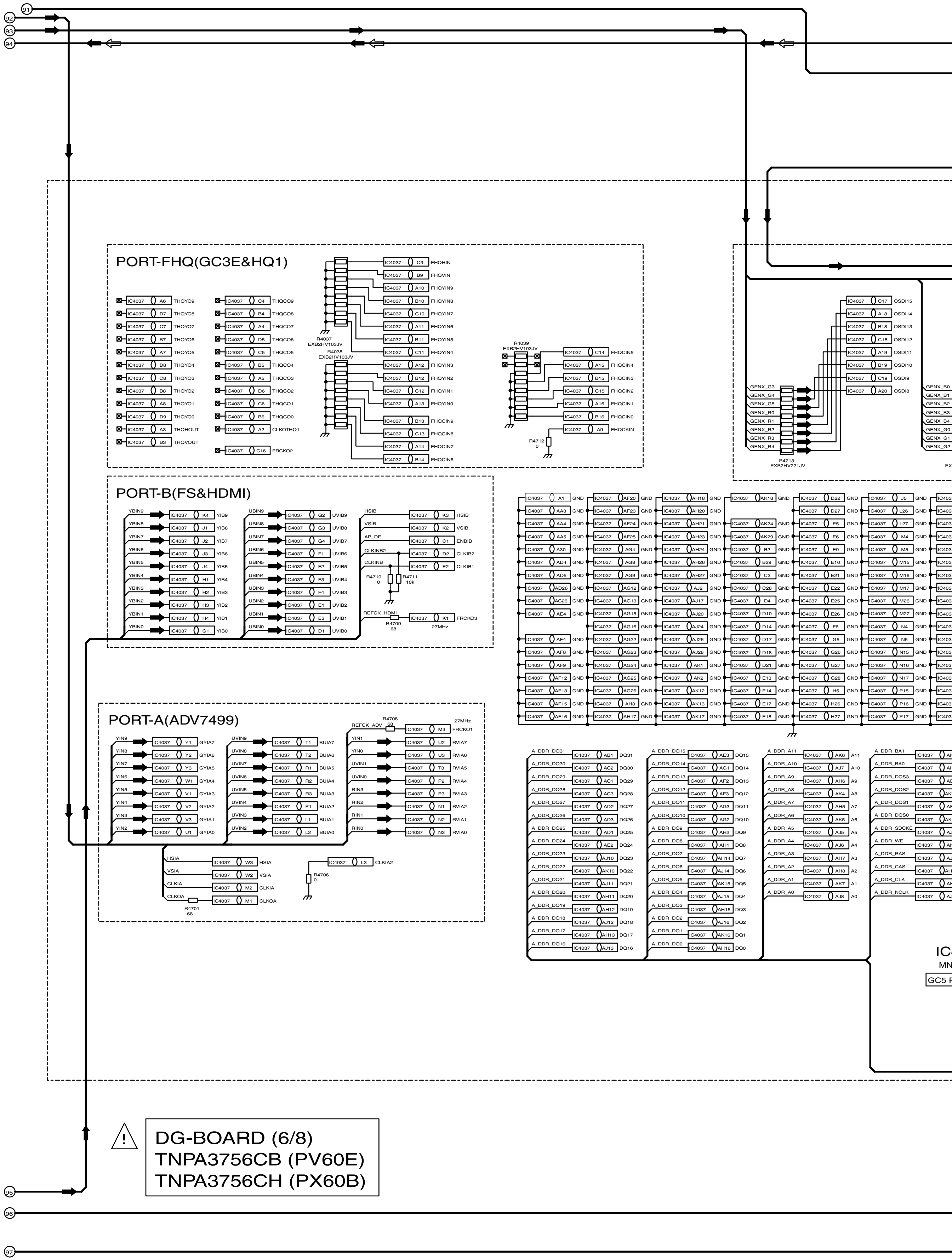
37	38	39	40	41


IC4026
C1AB00002535
HDMI I/F RECEIVER
Thermal Pad
IC4027
C0DBFFD00003
MAIN 1.8V
IC4025
C0FBBK000047
AUDIO DAC
IC4028
C0ABBB000230
AUDIO AMP
Q4082
2SK122800L
Q4083
2SK122800L
DIGITAL VIDEO SIGNAL (HDMI)
MAIN5V
MAIN3.3V
MAIN1.8V
MAIN9V
HPD1
HPD2
HDMI_SCL
HDMI_SDA
SCL1
SDA1
HDMI_VS
HDMI_HS
HDMI_DE
HDMI_CLK
HDMI_INT
HDMI_RST
HDMI_DAC_PD
REFCK_HDMI
HDMI_L_AUDIO
HDMI_R_AUDIO
HDMI_L
HDMI_R
HDMI_5V_DET1
HDMI_5V_DET2
HDMI_CEC
HDMI_WP
RX_MCLK
RX_SCK
RX_SD0#
RX_WS
HIGH:MUTE
VIH > 2.2V
VIL < 0.8V
91
92
93
94
95
96
97
DARD (5/8)
3756CB (PV60E)
3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (5 of 8) Schematic Diagram

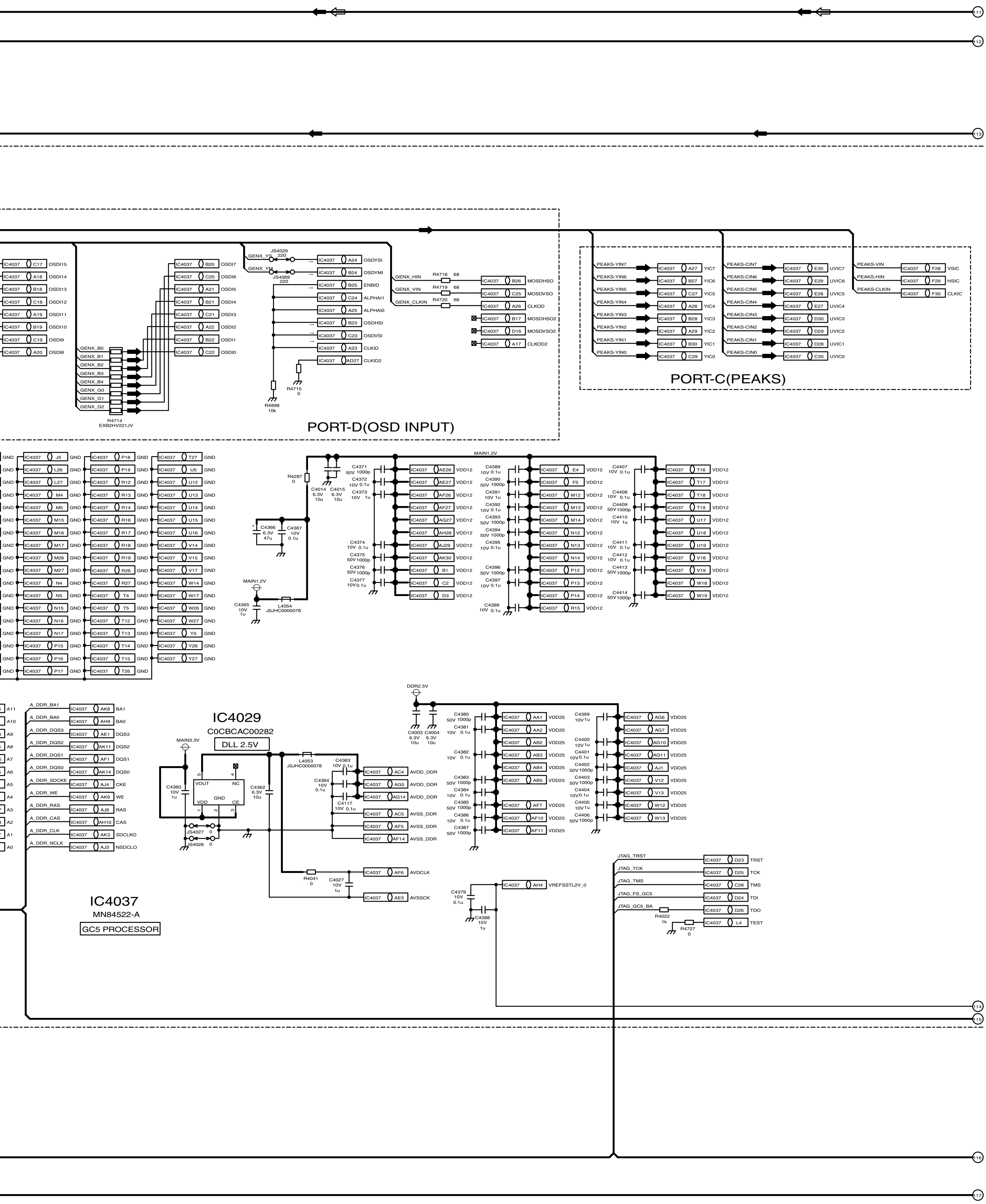
41 42 43 44 45

14.25. DG-Board (6 of 8) Schematic Diagram


PORT-FHQ(GC3E&HQ1)
PORT-B(FS&HDMI)
PORT-A(ADV7499)
R4037 EXB2HV103JV
R4038 EXB2HV103JV
R4039 EXB2HV103JV
R4713 EXB2HV221JV
27MHz
DG-BOARD (6/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
91
92
93
94
95
96
97

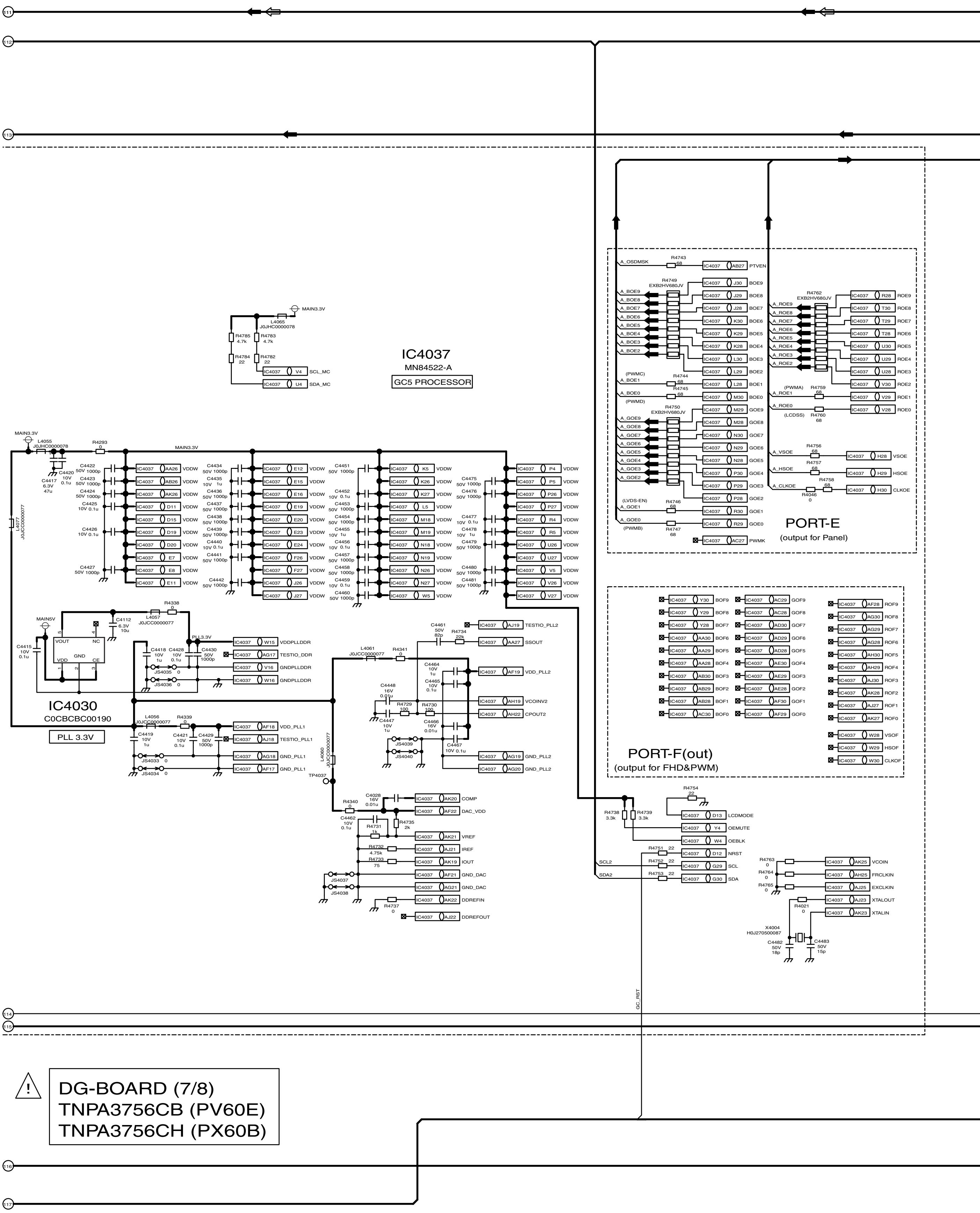
TH-50PV60E, TH-50PX60B DG-Board (6 of 8) Schematic Diagram

46 47 48 49 50


PORT-D(OSD INPUT)
PORT-C(PEAKS)
GENX_YC
GENX_YM
JS4029 220
JS4069 220
GENX_HIN
GENX_VIN
GENX_CLKIN
R4718 68
R4719 68
R4720 68
R4714 EXB2HV221JV
R4715 0
R4898 10k
MOSDHSO
MOSDVSO
CLKOD
MOSDHSO2
MOSDVSO2
CLKOD2
OSDYSI
OSDYMI
ENBID
ALPHAI1
ALPHAI0
OSDHSI
OSDVSI
CLKID
CLKID2
PEAKS-VIN
PEAKS-HIN
PEAKS-CLKIN
VSIC
HSIC
CLKIC
MAIN1.2V
VDD12
GND
L4054 J0JHC0000078
DDR2.5V
VDD25
IC4029
C0CBCAC00282
DLL 2.5V
MAIN3.3V
VOUT
NC
VDD
GND
CE
L4053 J0JHC0000078
AVDD_DDR
AVSS_DDR
AVDCLK
AVSSCK
VREFSSTL2V_0
JS4027
JS4028
IC4037
MN84522-A
GC5 PROCESSOR
JTAG_TRST
JTAG_TCK
JTAG_TMS
JTAG_FS_GC5
JTAG_GC5_BA
TRST
TCK
TMS
TDI
TDO
TEST
R4022 1k
R4727 0
A_DDR_BA1
A_DDR_BA0
A_DDR_DQS3
A_DDR_DQS2
A_DDR_DQS1
A_DDR_DQS0
A_DDR_SDCKE
A_DDR_WE
A_DDR_RAS
A_DDR_CAS
A_DDR_CLK
A_DDR_NCLK
111
112
113
114
115
116
117

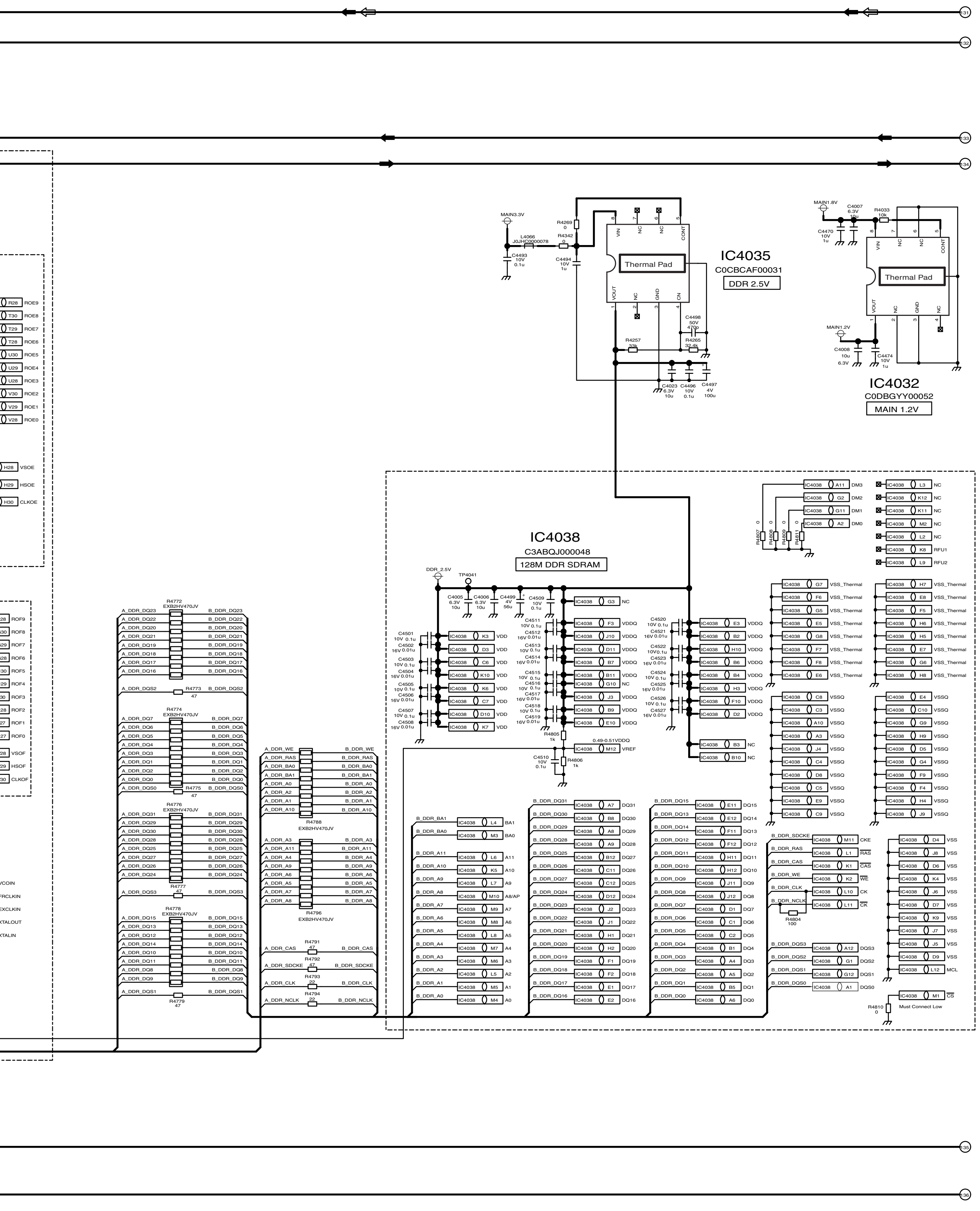
TH-50PV60E, TH-50PX60B DG-Board (6 of 8) Schematic Diagram

14.26. DG-Board (7 of 8) Schematic Diagram



IC4037
MN84522-A
GC5 PROCESSOR
IC4030
C0CBCBC00190
PLL 3.3V
MAIN3.3V
MAIN5V
PLL3.3V
SCL_MC
SDA_MC
VDDW
VDDPLLDDR
TESTIO_DDR
GNDPLLDDR
VDD_PLL1
TESTIO_PLL1
GND_PLL1
TESTIO_PLL2
SSOUT
VDD_PLL2
VCOINV2
CPOUT2
GND_PLL2
COMP
DAC_VDD
VREF
IREF
IOUT
GND_DAC
DDREFIN
DDREFOUT
TP4037
PTVEN
BOE9
BOE8
BOE7
BOE6
BOE5
BOE4
BOE3
BOE2
BOE1
BOE0
GOE9
GOE8
GOE7
GOE6
GOE5
GOE4
GOE3
GOE2
GOE1
GOE0
PWMK
ROE9
ROE8
ROE7
ROE6
ROE5
ROE4
ROE3
ROE2
ROE1
ROE0
VSOE
HSOE
CLKOE
PORT-E
(output for Panel)
BOF9
BOF8
BOF7
BOF6
BOF5
BOF4
BOF3
BOF2
BOF1
BOF0
GOF9
GOF8
GOF7
GOF6
GOF5
GOF4
GOF3
GOF2
GOF1
GOF0
ROF9
ROF8
ROF7
ROF6
ROF5
ROF4
ROF3
ROF2
ROF1
ROF0
VSOF
HSOF
CLKOF
PORT-F(out)
(output for FHD&PWM)
LCDMODE
OEMUTE
OEBLK
NRST
SCL
SDA
SCL2
SDA2
VCOIN
FRCLKIN
EXCLKIN
XTALOUT
XTALIN
X4004
GC_RST
DG-BOARD (7/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
55
56
57
58
59

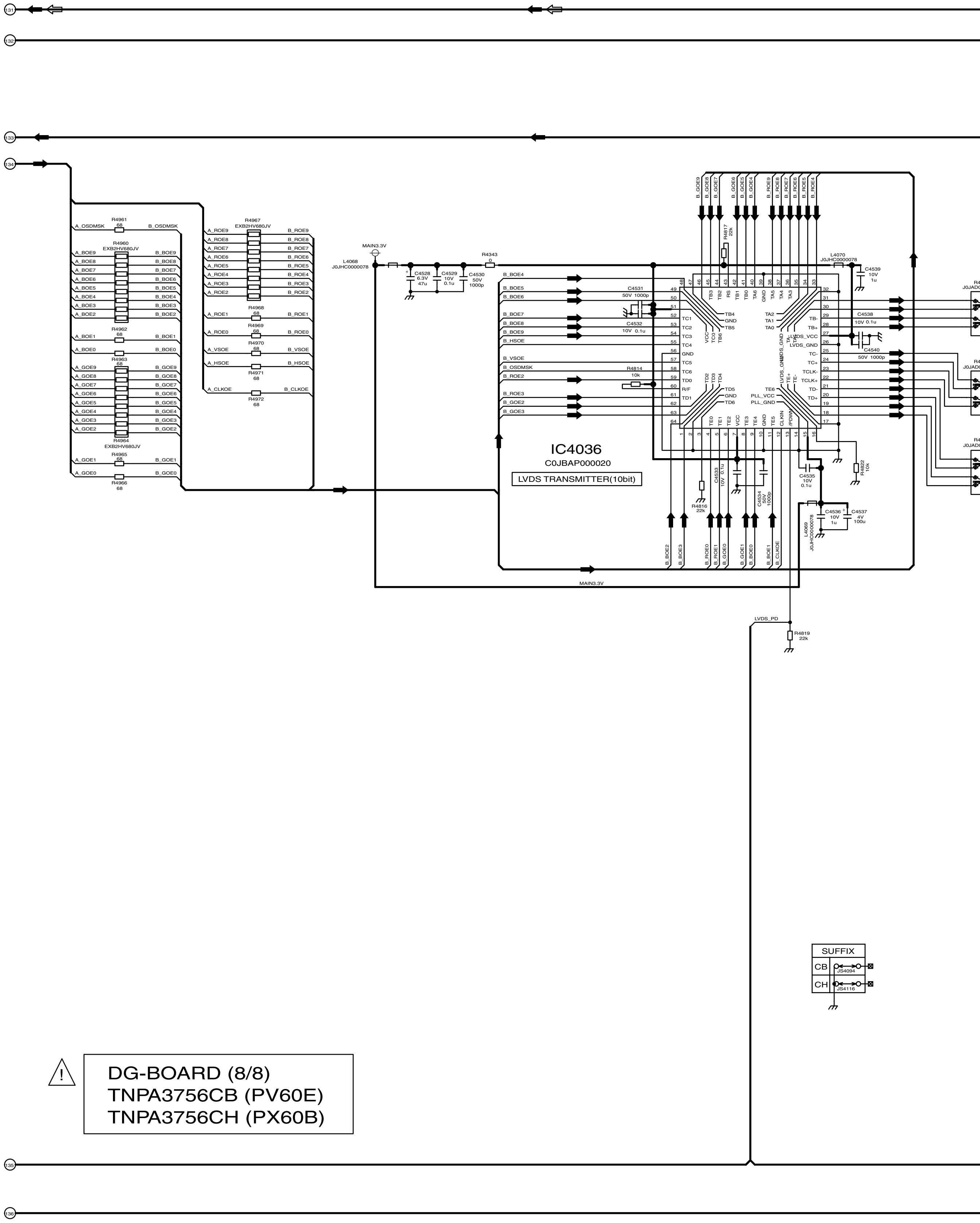
TH-50PV60E, TH-50PX60B DG-Board (7 of 8) Schematic Diagram


IC4035
C0CBCAF00031
DDR 2.5V
Thermal Pad
MAIN3.3V
L4066
J0JHC0000078
R4269
R4342
C4493
C4494
C4498
R4257
R4265
C4023
C4496
C4497
VIN
NC
CONT
VOUT
GND
CN
IC4032
C0DBGYY00052
MAIN 1.2V
MAIN1.8V
MAIN1.2V
C4007
R4033
C4470
C4008
C4474
IC4038
C3ABQJ000048
128M DDR SDRAM
DDR_2.5V
TP4041
VDD
VDDQ
VSSQ
VSS
VSS_Thermal
VREF
0.49-0.51VDDQ
DM3
DM2
DM1
DM0
NC
RFU1
RFU2
CKE
RAS
CAS
WE
CK
DQS3
DQS2
DQS1
DQS0
CS
MCL
Must Connect Low
R4810
R4804
R4805
R4806
C4510
EXB2HV470JV
R4772
R4774
R4776
R4778
R4788
R4796
R4791
R4792
R4793
R4794
A_DDR_CAS
A_DDR_SDCKE
A_DDR_CLK
A_DDR_NCLK
B_DDR_CAS
B_DDR_SDCKE
B_DDR_CLK
B_DDR_NCLK
ROE0
ROE1
ROE2
ROE3
ROE4
ROE5
ROE6
ROE7
ROE8
ROE9
VSOE
HSOE
CLKOE
ROF0
ROF1
ROF2
ROF3
ROF4
ROF5
ROF6
ROF7
ROF8
ROF9
VSOF
HSOF
CLKOF
VCOIN
FRCLKIN
EXCLKIN
XTALOUT
XTALIN
131
132
133
134
135
136

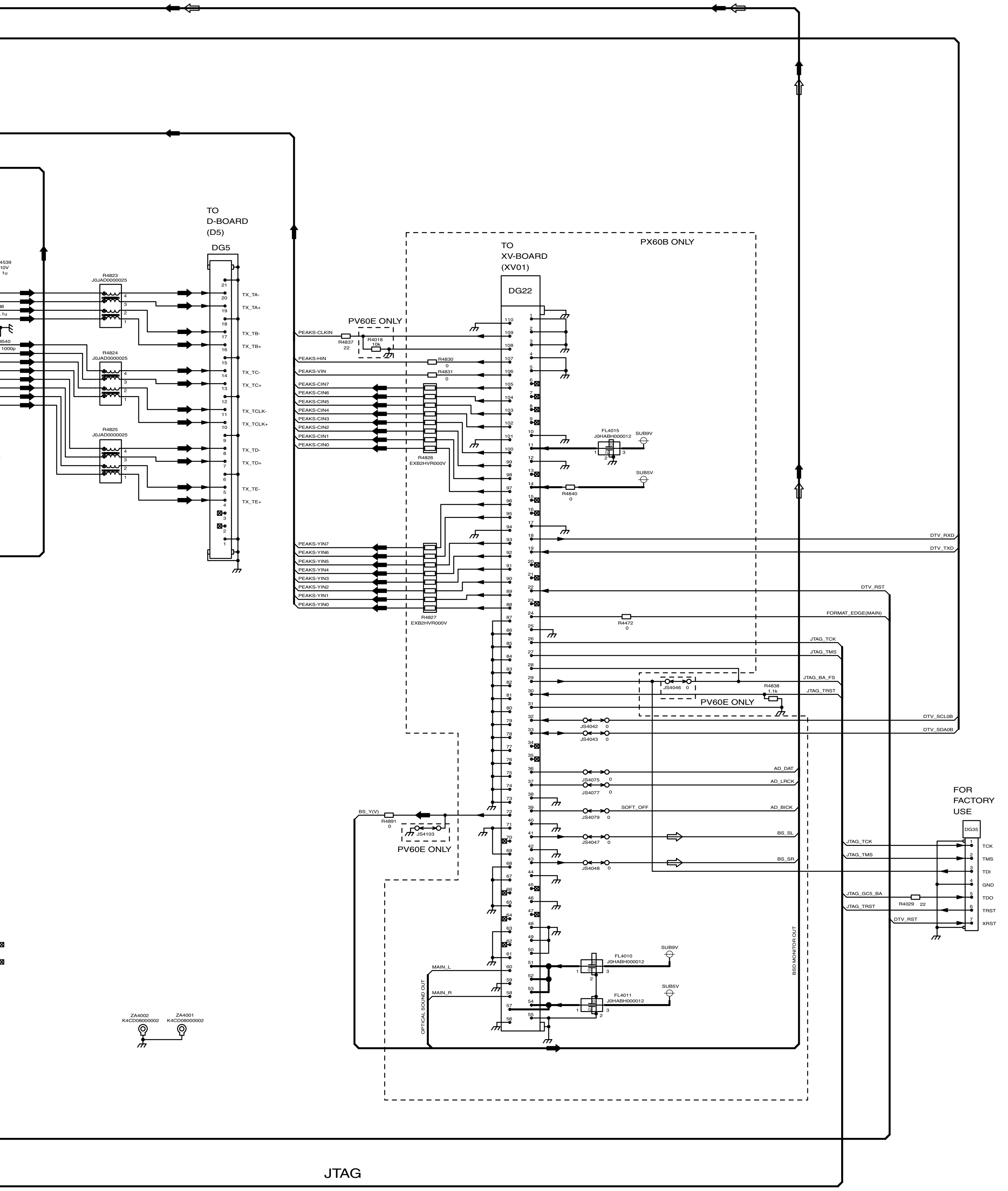
TH-50PV60E, TH-50PX60B
DG-Board (7 of 8) Schematic Diagram

59	60	61	62	63

14.27. DG-Board (8 of 8) Schematic Diagram


131
132
133
134
135
136
A_OSDMSK
R4961
68
B_OSDMSK
R4960
EXB2HV680JV
A_BOE9
A_BOE8
A_BOE7
A_BOE6
A_BOE5
A_BOE4
A_BOE3
A_BOE2
B_BOE9
B_BOE8
B_BOE7
B_BOE6
B_BOE5
B_BOE4
B_BOE3
B_BOE2
R4962
68
A_BOE1
B_BOE1
A_BOE0
B_BOE0
R4963
68
A_GOE9
A_GOE8
A_GOE7
A_GOE6
A_GOE5
A_GOE4
A_GOE3
A_GOE2
B_GOE9
B_GOE8
B_GOE7
B_GOE6
B_GOE5
B_GOE4
B_GOE3
B_GOE2
R4964
EXB2HV680JV
R4965
68
A_GOE1
B_GOE1
A_GOE0
B_GOE0
R4966
68
R4967
EXB2HV680JV
A_ROE9
A_ROE8
A_ROE7
A_ROE6
A_ROE5
A_ROE4
A_ROE3
A_ROE2
B_ROE9
B_ROE8
B_ROE7
B_ROE6
B_ROE5
B_ROE4
B_ROE3
B_ROE2
R4968
68
A_ROE1
B_ROE1
R4969
68
A_ROE0
B_ROE0
R4970
68
A_VSOE
B_VSOE
A_HSOE
B_HSOE
R4971
68
A_CLKOE
B_CLKOE
R4972
68
MAIN3.3V
L4068
J0JHC0000078
C4528
6.3V
47u
C4529
10V
0.1u
C4530
50V
1000p
R4343
0
B_BOE4
B_BOE5
B_BOE6
B_BOE7
B_BOE8
B_BOE9
B_HSOE
B_VSOE
B_OSDMSK
B_ROE2
B_ROE3
B_GOE2
B_GOE3
C4531
50V 1000p
C4532
10V 0.1u
R4814
10k
B_GOE9
B_GOE8
B_GOE7
B_GOE6
B_GOE5
B_GOE4
B_ROE9
B_ROE8
B_ROE7
B_ROE6
B_ROE5
B_ROE4
R4817
22k
L4070
J0JHC0000078
C4539
10V
1u
C4538
10V 0.1u
C4540
50V 1000p
IC4036
C0JBAP000020
LVDS TRANSMITTER(10bit)
TC1
TC2
TC3
TC4
GND
TC5
TC6
TD0
R/F
TD1
TB3
TB2
RS
TB1
TB0
TA6
GND
TA5
TA4
TA3
TB4
GND
TB5
VCC
TC0
TB6
TA2
TA1
TA0
LVDS_GND
LVDS_VCC
TB-
TB+
TC-
TC+
TCLK-
TCLK+
TD-
TD+
TD2
TD3
TD4
TD5
GND
TD6
TE6
PLL_VCC
PLL_GND
TE+
TE-
TE0
TE1
TE2
VCC
TE3
TE4
GND
TE5
CLKIN
PDWN
C4533
10V 0.1u
C4534
50V
1000p
R4816
22k
C4535
10V
0.1u
C4536
10V
1u
C4537
4V
100u
L4069
J0JHC0000078
R4822
10k
B_BOE2
B_BOE3
B_ROE0
B_ROE1
B_GOE0
B_GOE1
B_BOE0
B_BOE1
B_CLKOE
MAIN3.3V
LVDS_PD
R4819
22k
SUFFIX
CB
JS4094
CH
JS4116

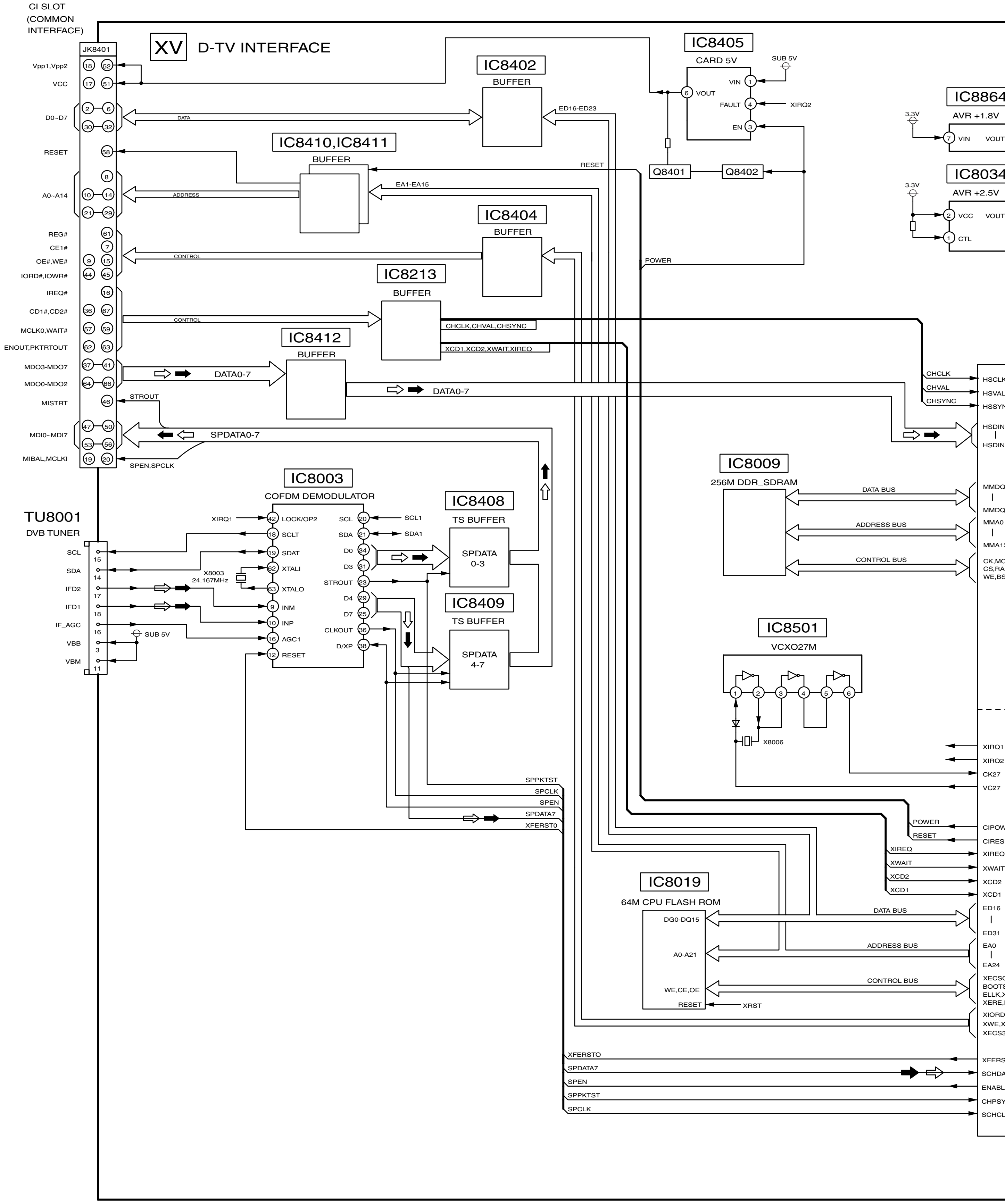
DG-BOARD (8/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

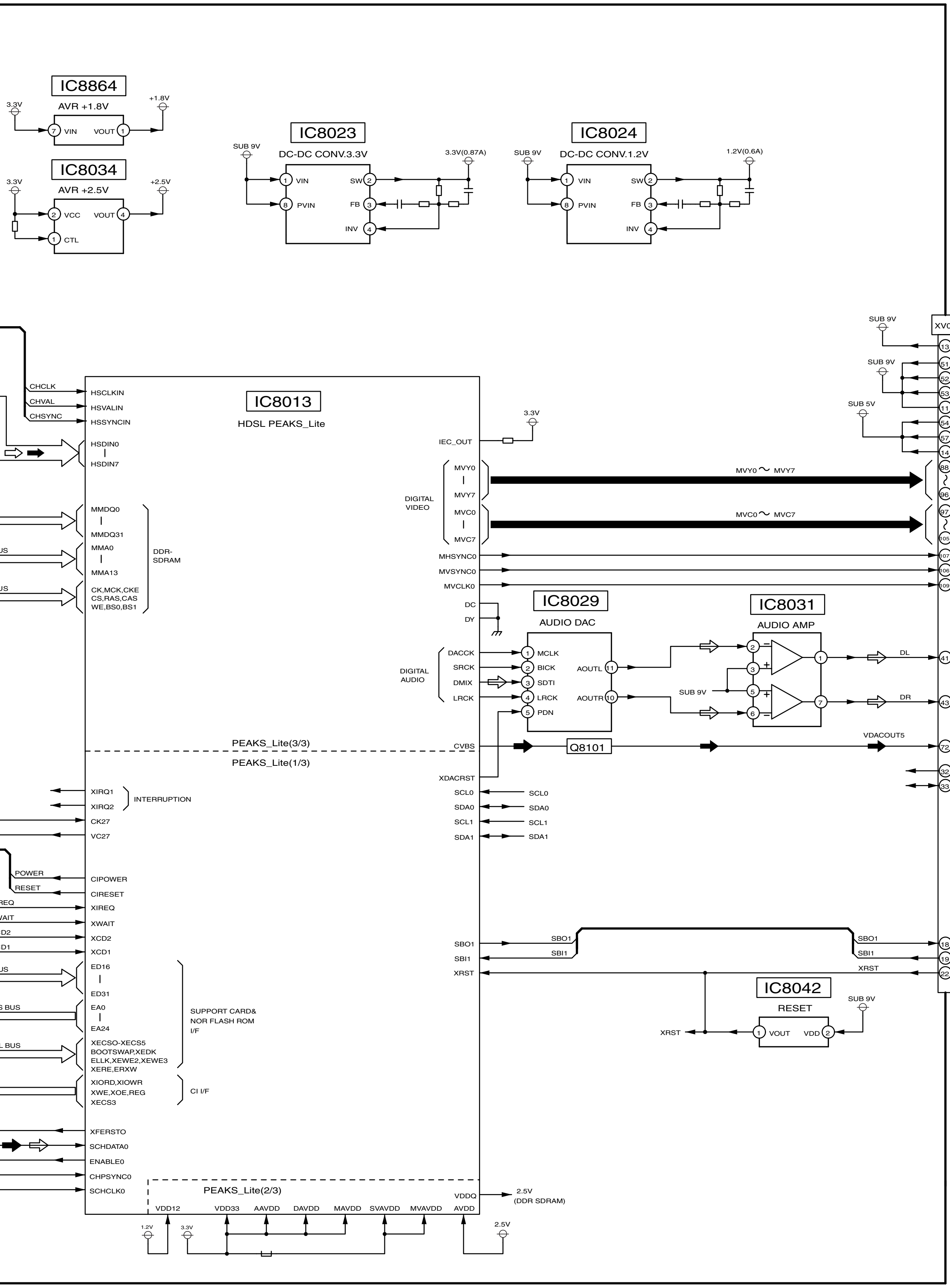

TO
D-BOARD
(D5)
DG5
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+
4539
10V
1u
4540
1000p
R4823
J0JAD0000025
R4824
J0JAD0000025
R4825
J0JAD0000025
PV60E ONLY
PX60B ONLY
TO
XV-BOARD
(XV01)
DG22
PEAKS-CLKIN
R4837
22
R4018
10k
PEAKS-HIN
R4830
0
PEAKS-VIN
R4831
0
PEAKS-CIN7
PEAKS-CIN6
PEAKS-CIN5
PEAKS-CIN4
PEAKS-CIN3
PEAKS-CIN2
PEAKS-CIN1
PEAKS-CIN0
R4826
EXB2HVR000V
PEAKS-YIN7
PEAKS-YIN6
PEAKS-YIN5
PEAKS-YIN4
PEAKS-YIN3
PEAKS-YIN2
PEAKS-YIN1
PEAKS-YIN0
R4827
EXB2HVR000V
FL4015
J0HABH000012
SUB9V
SUB5V
R4840
0
DTV_RXD
DTV_TXD
DTV_RST
FORMAT_EDGE(MAIN)
R4472
0
JTAG_TCK
JTAG_TMS
JTAG_BA_FS
JTAG_TRST
JS4046 0
R4838
1.1k
PV60E ONLY
DTV_SCL0B
DTV_SDA0B
JS4042 0
JS4043 0
AD_DAT
AD_LRCK
JS4075 0
JS4077 0
SOFT_OFF
AD_BICK
JS4079 0
BS_SL
JS4047 0
BS_SR
JS4048 0
BS_Y(V)
R4891
0
JS4103
PV60E ONLY
FL4010
J0HABH000012
SUB9V
FL4011
J0HABH000012
SUB5V
MAIN_L
MAIN_R
OPTICAL SOUND OUT
BSD MONITOR OUT
FOR
FACTORY
USE
DG35
JTAG_TCK
JTAG_TMS
JTAG_GC5_BA
JTAG_TRST
DTV_RST
R4029 22
TCK
TMS
TDI
GND
TDO
TRST
XRST
ZA4002
K4CD08000002
ZA4001
K4CD08000002
JTAG

TH-50PV60E, TH-50PX60B
DG-Board (8 of 8) Schematic Diagram

68	69	70	71	72

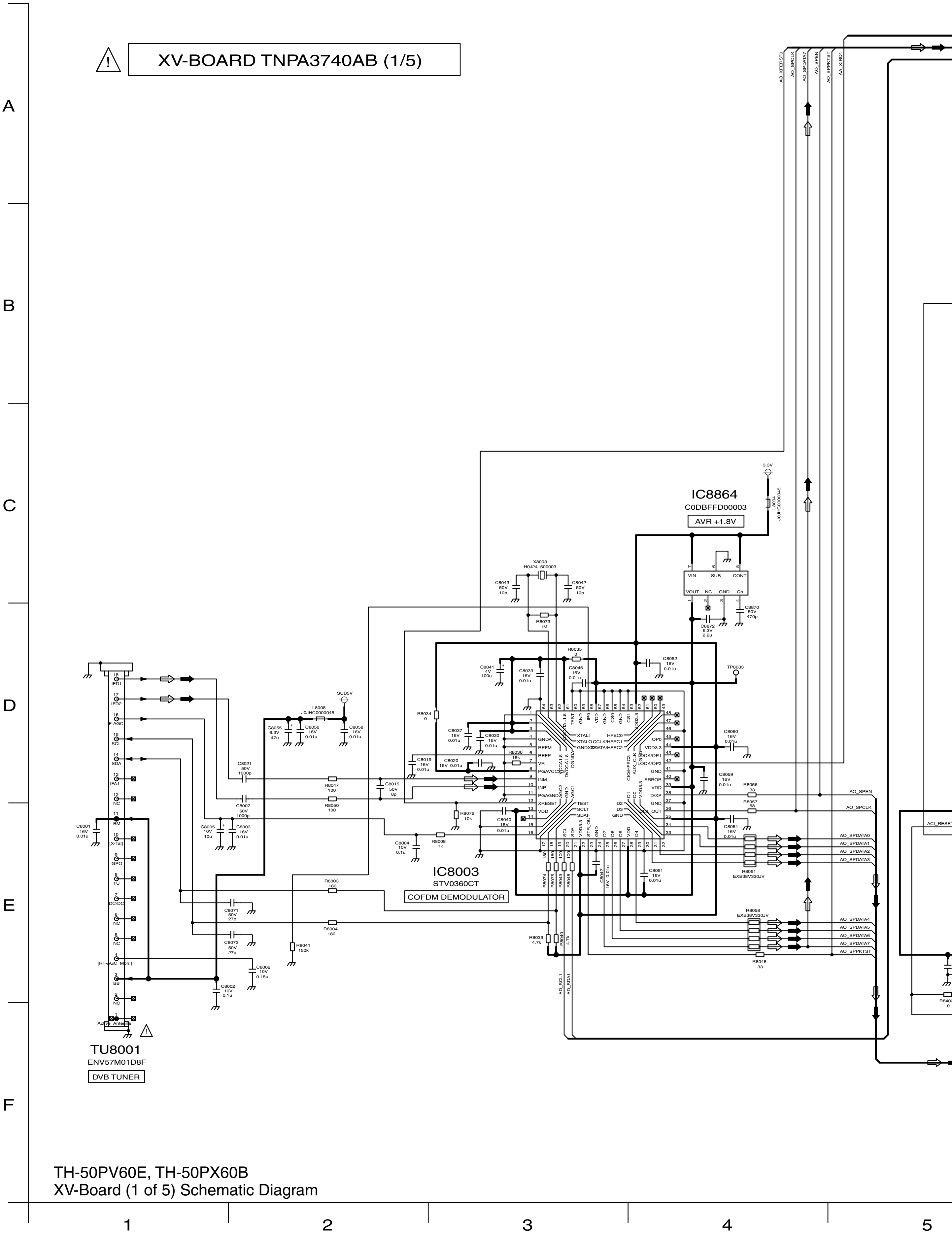
14.28. XV-Board Block Diagram (PX60B)


CI SLOT
(COMMON
INTERFACE)
JK8401
XV
D-TV INTERFACE
Vpp1,Vpp2
VCC
D0~D7
RESET
A0~A14
REG#
CE1#
OE#,WE#
IORD#,IOWR#
IREQ#
CD1#,CD2#
MCLK0,WAIT#
ENOUT,PKTRTOUT
MDO3-MDO7
MDO0-MDO2
MISTRT
MDI0~MDI7
MIBAL,MCLKI
DATA
ADDRESS
CONTROL
DATA0-7
STROUT
SPDATA0-7
SPEN,SPCLK
IC8402
BUFFER
ED16-ED23
IC8410,IC8411
BUFFER
EA1-EA15
RESET
IC8404
BUFFER
IC8213
BUFFER
CHCLK,CHVAL,CHSYNC
XCD1,XCD2,XWAIT,XIREQ
IC8412
BUFFER
IC8405
CARD 5V
SUB 5V
VIN
FAULT
EN
VOUT
XIRQ2
Q8401
Q8402
POWER
IC8864
AVR +1.8V
3.3V
VIN
VOUT
IC8034
AVR +2.5V
VCC
CTL
CHCLK
CHVAL
CHSYNC
HSCLK
HSVAL
HSSYN
HSDIN
IC8003
COFDM DEMODULATOR
XIRQ1
LOCK/OP2
SCLT
SDAT
XTALI
XTALO
INM
INP
AGC1
RESET
SCL
SDA
D0
D3
STROUT
D4
D7
CLKOUT
D/XP
SCL1
SDA1
X8003
24.167MHz
TU8001
DVB TUNER
SCL
SDA
IFD2
IFD1
IF_AGC
VBB
VBM
SUB 5V
IC8408
TS BUFFER
SPDATA
0-3
IC8409
TS BUFFER
SPDATA
4-7
IC8009
256M DDR_SDRAM
DATA BUS
ADDRESS BUS
CONTROL BUS
MMDQ
MMA0
MMA1
CK,MC
CS,RA
WE,BS
IC8501
VCXO27M
X8006
XIRQ1
XIRQ2
CK27
VC27
SPPKTST
SPCLK
SPEN
SPDATA7
XFERST0
POWER
RESET
XIREQ
XWAIT
XCD2
XCD1
CIPOW
CIRES
XIREQ
XWAIT
XCD2
XCD1
IC8019
64M CPU FLASH ROM
DG0-DQ15
A0-A21
WE,CE,OE
RESET
XRST
DATA BUS
ADDRESS BUS
CONTROL BUS
ED16
ED31
EA0
EA24
XECSC
BOOTS
ELLK,X
XERE,
XIORD
XWE,X
XECS3
XFERSTO
SPDATA7
SPEN
SPPKTST
SPCLK
XFERS
SCHDA
ENABL
CHPSY
SCHCL

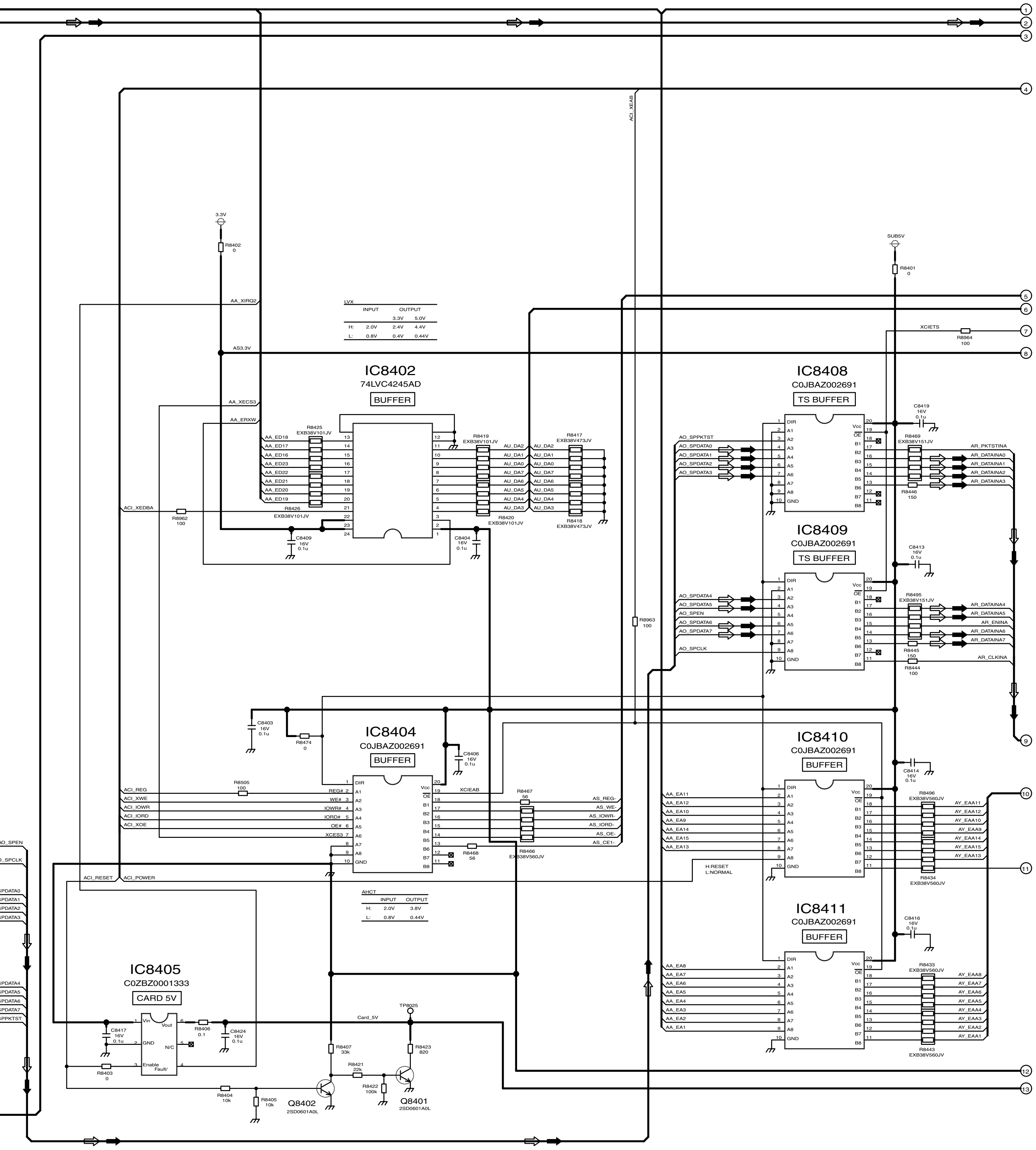

IC8864
AVR +1.8V
3.3V
+1.8V
7 VIN
VOUT 1
IC8034
AVR +2.5V
3.3V
+2.5V
2 VCC
VOUT 4
1 CTL
IC8023
DC-DC CONV.3.3V
SUB 9V
3.3V(0.87A)
1 VIN
SW 2
8 PVIN
FB 3
INV 4
IC8024
DC-DC CONV.1.2V
SUB 9V
1.2V(0.6A)
1 VIN
SW 2
8 PVIN
FB 3
INV 4
SUB 9V
XV01
TO DG22
13 SUB 9V
SUB 9V
51 SUB 9V
52 SUB 9V
53 SUB 9V
11 SUB 9V
SUB 5V
54 SUB 5V
57 SUB 5V
14 SUB 5V
88 MVY0
96 MVY7
97 MVC0
105 MVC7
107 MHSYNC0
106 MVSYNC0
109 MVCLK0
CHCLK
CHVAL
CHSYNC
IC8013
HDSL PEAKS_Lite
HSCLKIN
HSVALIN
HSSYNCIN
HSDIN0
HSDIN7
MMDQ0
MMDQ31
US
MMA0
MMA13
DDR-SDRAM
US
CK,MCK,CKE
CS,RAS,CAS
WE,BS0,BS1
3.3V
IEC_OUT
DIGITAL VIDEO
MVY0
MVY7
MVC0
MVC7
MVY0 ~ MVY7
MVC0 ~ MVC7
MHSYNC0
MVSYNC0
MVCLK0
IC8029
AUDIO DAC
IC8031
AUDIO AMP
DC
DY
DIGITAL AUDIO
DACCK
SRCK
DMIX
LRCK
1 MCLK
2 BICK
3 SDTI
4 LRCK
5 PDN
AOUTL 11
AOUTR 10
SUB 9V
2
3
5
6
1
7
DL
DR
41 DL(BS_L)
43 DR(BS_R)
PEAKS_Lite(3/3)
PEAKS_Lite(1/3)
CVBS
Q8101
VDACOUT5
72 CVBS
32 SCL0
33 SDA0
XDACRST
XIRQ1
XIRQ2
INTERRUPTION
CK27
VC27
SCL0
SDA0
SCL1
SDA1
SCL0
SDA0
SCL1
SDA1
POWER
RESET
CIPOWER
CIRESET
REQ
XIREQ
AIT
XWAIT
D2
XCD2
D1
XCD1
SBO1
SBI1
XRST
SBO1
SBI1
SBO1
SBI1
XRST
18 SBO1(SBI1)
19 SBI1(SBO1)
22 XRST
IC8042
RESET
SUB 9V
XRST
1 VOUT
VDD 2
US
ED16
ED31
BUS
EA0
EA24
SUPPORT CARD&
NOR FLASH ROM
I/F
BUS
XECSO-XECS5
BOOTSWAP,XEDK
ELLK,XEWE2,XEWE3
XERE,ERXW
XIORD,XIOWR
XWE,XOE,REG
XECS3
CI I/F
XFERSTO
SCHDATA0
ENABLE0
CHPSYNC0
SCHCLK0
PEAKS_Lite(2/3)
VDDQ
2.5V
(DDR SDRAM)
VDD12
VDD33
AAVDD
DAVDD
MAVDD
SVAVDD
MVAVDD
AVDD
1.2V
3.3V
2.5V

TH-50PV60E, TH-50PX60B
XV-Board Block Diagram

14.29. XV-Board (1 of 5) Schematic Diagram (PX60B)


XV-BOARD TNPA3740AB (1/5)
A
B
C
D
E
F
1
2
3
4
5
IC8864
C0DBFFD00003
AVR +1.8V
VIN
SUB
CONT
VOUT
NC
GND
Cn
3.3V
L8004
J0JHC0000045
C8870 50V 470p
C8872 6.3V 2.2u
X8003
H0J241500003
C8043 50V 10p
C8042 50V 10p
R8073 1M
R8035 0
C8052 16V 0.01u
C8041 4V 100u
C8039 16V 0.01u
C8046 16V 0.01u
TP8033
R8034 0
C8037 16V 0.01u
C8030 16V 0.01u
R8036 16k
C8019 16V 0.01u
C8020 16V 0.01u
C8015 50V 8p
R8047 100
R8050 100
R8076 10k
C8040 16V 0.01u
C8004 10V 0.1u
R8008 1k
IC8003
STV0360CT
COFDM DEMODULATOR
GNDA
REFM
REFP
VR
PGAVCC
INM
INP
PGAGND
XRESET
VDD
XTALI
XTALO
GNDXTAL
HFEC0
CCLK/HFEC1
CDATA/HFEC2
OP0
VDD3.3
LOCK/OP1
LOCK/OP2
GND
ERROR
D/XP
CLK_OUT
TEST
SCLT
SDAT
D1
D2
D3
STR_OUT
C8060 16V 0.01u
C8059 16V 0.01u
R8056 33
R8057 68
C8061 16V 0.01u
R8051 EXB38V330JV
R8058 EXB38V330JV
R8046 33
C8051 16V 0.01u
C8047 16V 0.01u
R8074
R8075
R8049
R8048
R8039 4.7k
R8040 4.7k
AD_SCL1
AD_SDA1
AO_XFERST0
AO_SPCLK
AO_SPDATA7
AO_SPEN
AO_SPPKTST
AA_XIRQ1
AO_SPEN
AO_SPCLK
ACI_RESET
AO_SPDATA0
AO_SPDATA1
AO_SPDATA2
AO_SPDATA3
AO_SPDATA4
AO_SPDATA5
AO_SPDATA6
AO_SPDATA7
AO_SPPKTST
SUB5V
L8008
J0JHC0000045
C8055 6.3V 47u
C8056 16V 0.01u
C8058 16V 0.01u
C8021 50V 1000p
C8007 50V 1000p
C8005 16V 10u
C8003 16V 0.01u
C8001 16V 0.01u
C8071 50V 27p
C8073 50V 27p
C8062 10V 0.15u
C8002 10V 0.1u
R8003 180
R8004 180
R8041 150k
18 IFD1
17 IFD2
16 IF-AGC
15 SCL
14 SDA
13 IFA1
12 NC
11 BM
10 [X-Tal]
9 GPO
8 TU
7 DC/DC
6 NC
5 NC
4 [RF-AGC_Mon.]
3 BB
2 NC
1 Active_Antenna
TU8001
ENV57M01D8F
DVB TUNER

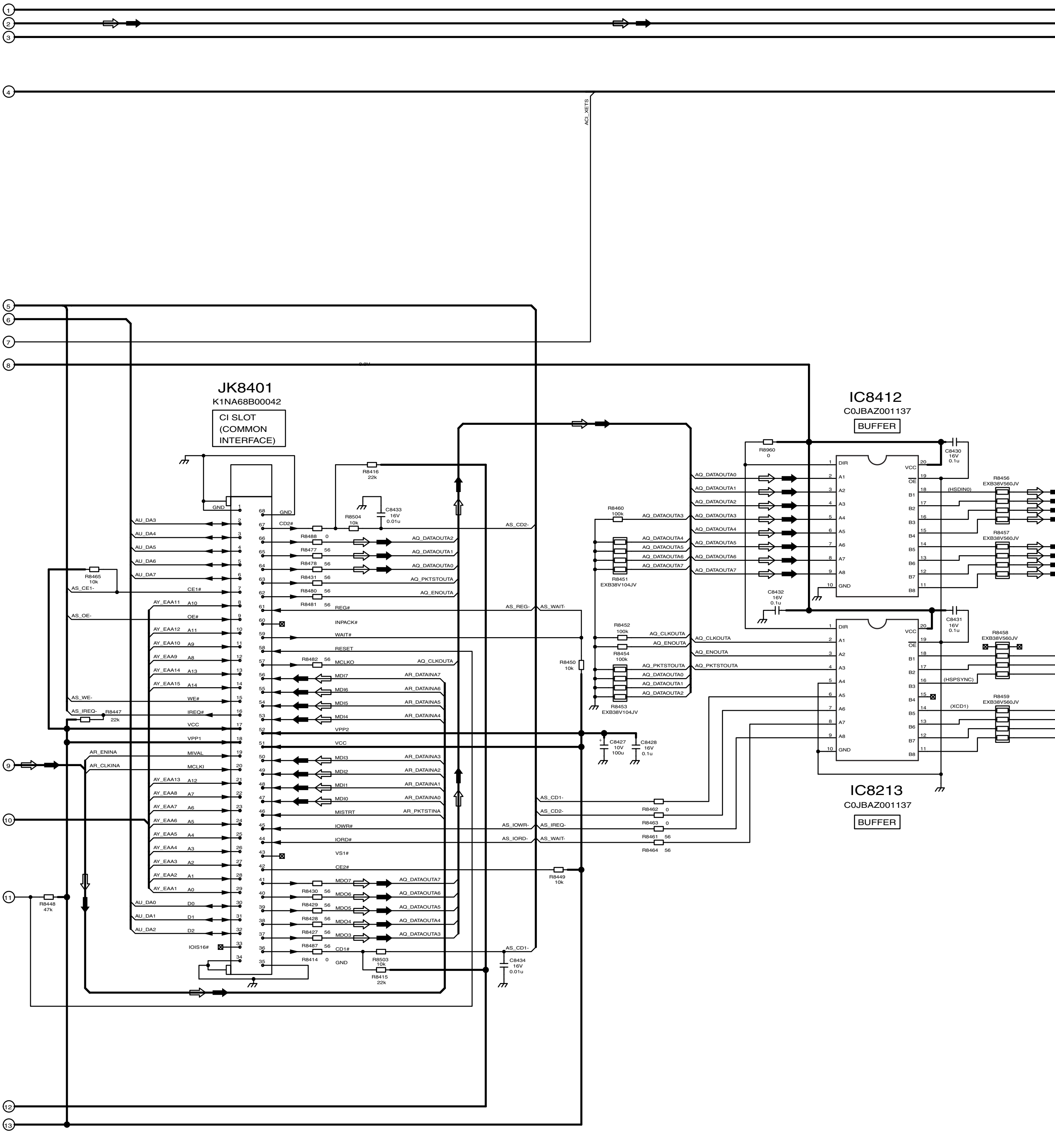
TH-50PV60E, TH-50PX60B
XV-Board (1 of 5) Schematic Diagram


IC8402
74LVC4245AD
BUFFER
IC8404
C0JBAZ002691
BUFFER
IC8405
C0ZBZ0001333
CARD 5V
IC8408
C0JBAZ002691
TS BUFFER
IC8409
C0JBAZ002691
TS BUFFER
IC8410
C0JBAZ002691
BUFFER
IC8411
C0JBAZ002691
BUFFER
Q8402
2SD0601A0L
Q8401
2SD0601A0L
TP8025
Card_5V
3.3V
SUB5V
AS3.3V
LVX
INPUT OUTPUT
3.3V 5.0V
H: 2.0V 2.4V 4.4V
L: 0.8V 0.4V 0.44V
AHCT
INPUT OUTPUT
H: 2.0V 3.8V
L: 0.8V 0.44V
H:RESET
L:NORMAL
AA_XIRQ2
AA_XECS3
AA_ERXW
ACI_XEDBA
ACI_XEAB
ACI_REG
ACI_XWE
ACI_IOWR
ACI_IORD
ACI_XOE
ACI_RESET
ACI_POWER
XCIETS
XCIEAB
AR_PKTSTINA
AR_ENINA
AR_CLKINA
1
2
3
4
5
6
7
8
9
10
11
12
13

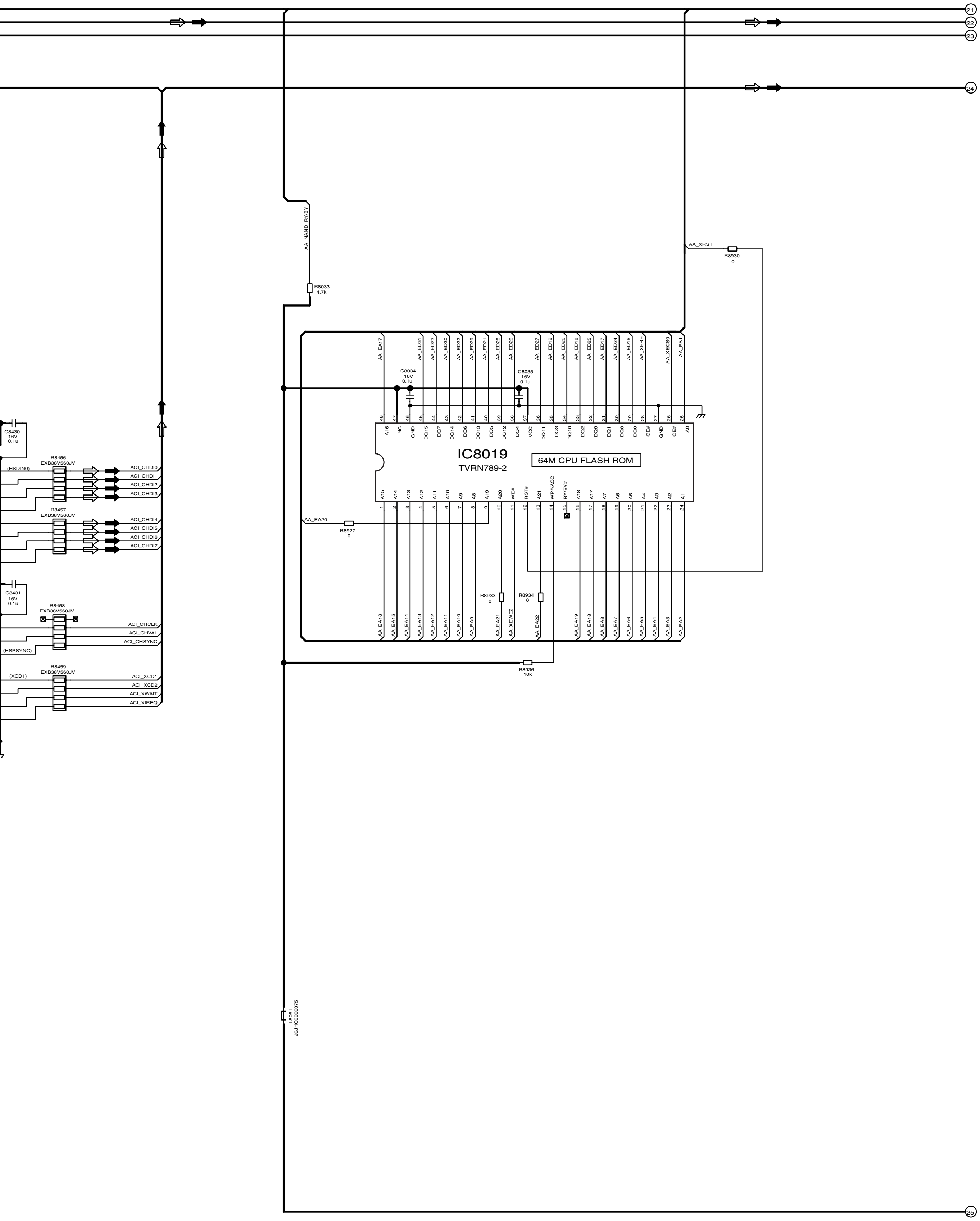
TH-50PV60E, TH-50PX60B
XV-Board (1 of 5) Schematic Diagram

5 6 7 8 9

14.30. XV-Board (2 of 5) Schematic Diagram (PX60B)


JK8401
K1NA68B00042
CI SLOT
(COMMON
INTERFACE)
IC8412
C0JBAZ001137
BUFFER
IC8213
C0JBAZ001137
BUFFER
ACI_XETS
R8416
22k
C8433
16V
0.01u
R8504
10k
R8465
10k
R8447
22k
R8448
47k
R8460
100k
R8451
EXB38V104JV
R8452
100k
R8454
100k
R8453
EXB38V104JV
R8450
10k
R8449
10k
R8960
0
C8430
16V
0.1u
C8431
16V
0.1u
C8432
16V
0.1u
C8427
10V
100u
C8428
16V
0.1u
C8434
16V
0.01u
R8503
10k
R8415
22k
R8456
EXB38V560JV
R8457
EXB38V560JV
R8458
EXB38V560JV
R8459
EXB38V560JV
(HSDIN0)
(HSPSYNC)
(XCD1)
AS_CD2-
AS_REG-
AS_WAIT-
AS_CD1-
AS_IREQ-
AS_IOWR-
AS_IORD-
AS_CE1-
AS_OE-
AS_WE-
AS_IREQ-
AR_ENINA
AR_CLKINA
AQ_CLKOUTA
AQ_ENOUTA
AQ_PKTSTOUTA
1
2
3
4
5
6
7
8
9
10
11
12
13

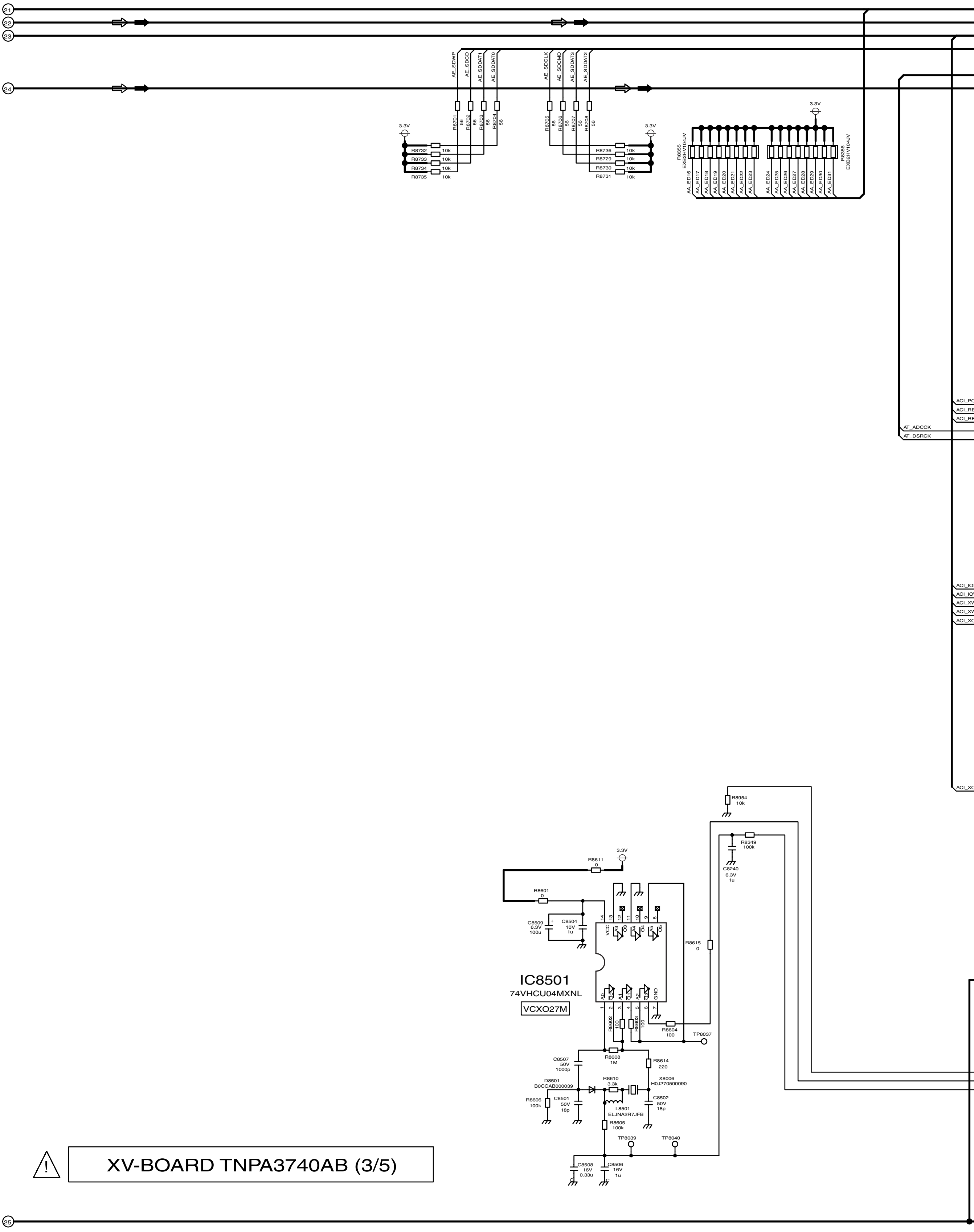
⚠ XV-BOARD TNPA3740AB (2/5)



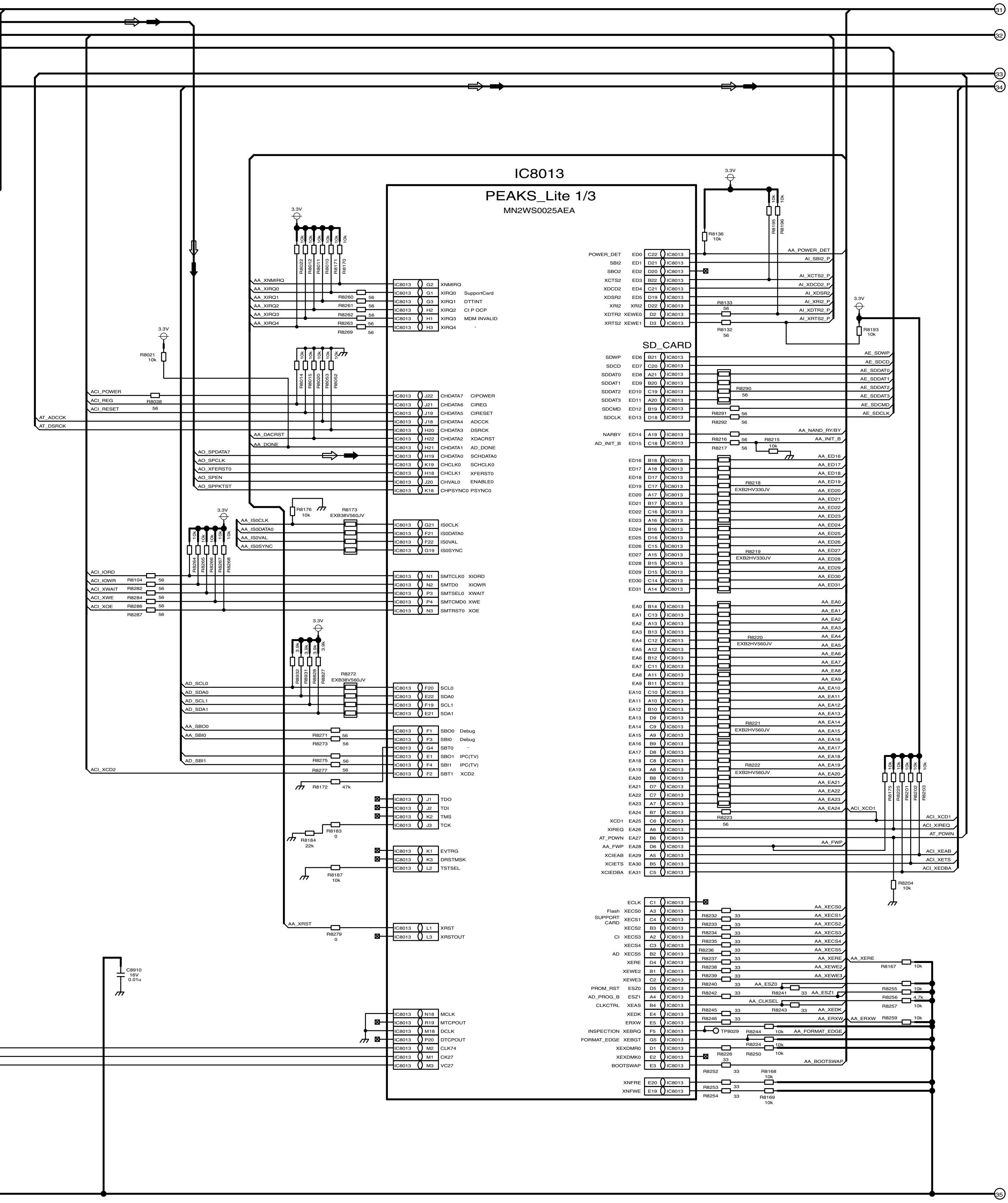
21
22
23
24
25
AA_NAND_RYBY
R8033
4.7k
AA_XRST
R8930
0
C8430
16V
0.1u
R8456
EXB38V560JV
(HSDIN0)
ACI_CHDI0
ACI_CHDI1
ACI_CHDI2
ACI_CHDI3
R8457
EXB38V560JV
ACI_CHDI4
ACI_CHDI5
ACI_CHDI6
ACI_CHDI7
C8431
16V
0.1u
R8458
EXB38V560JV
ACI_CHCLK
ACI_CHVAL
ACI_CHSYNC
(HSPSYNC)
R8459
EXB38V560JV
(XCD1)
ACI_XCD1
ACI_XCD2
ACI_XWAIT
ACI_XIREQ
AA_EA17
AA_ED31
AA_ED23
AA_ED30
AA_ED22
AA_ED29
AA_ED21
AA_ED28
AA_ED20
AA_ED27
AA_ED19
AA_ED26
AA_ED18
AA_ED25
AA_ED17
AA_ED24
AA_ED16
AA_XERE
AA_XECS0
AA_EA1
C8034
16V
0.1u
C8035
16V
0.1u
48 A16
47 NC
46 GND
45 DQ15
44 DQ7
43 DQ14
42 DQ6
41 DQ13
40 DQ5
39 DQ12
38 DQ4
37 VCC
36 DQ11
35 DQ3
34 DQ10
33 DQ2
32 DQ9
31 DQ1
30 DQ8
29 DQ0
28 OE#
27 GND
26 CE#
25 A0
IC8019
TVRN789-2
64M CPU FLASH ROM
1 A15
2 A14
3 A13
4 A12
5 A11
6 A10
7 A9
8 A8
9 A19
10 A20
11 WE#
12 RST#
13 A21
14 WP#/ACC
15 RY/BY#
16 A18
17 A17
18 A7
19 A6
20 A5
21 A4
22 A3
23 A2
24 A1
AA_EA20
R8927
0
R8933
0
R8934
0
AA_EA16
AA_EA15
AA_EA14
AA_EA13
AA_EA12
AA_EA11
AA_EA10
AA_EA9
AA_EA21
AA_XEWE2
AA_EA22
AA_EA19
AA_EA18
AA_EA8
AA_EA7
AA_EA6
AA_EA5
AA_EA4
AA_EA3
AA_EA2
R8936
10k
L8051
J0JHC0000075

TH-50PV60E, TH-50PX60B
XV-Board (2 of 5) Schematic Diagram

14.31. XV-Board (3 of 5) Schematic Diagram (PX60B)



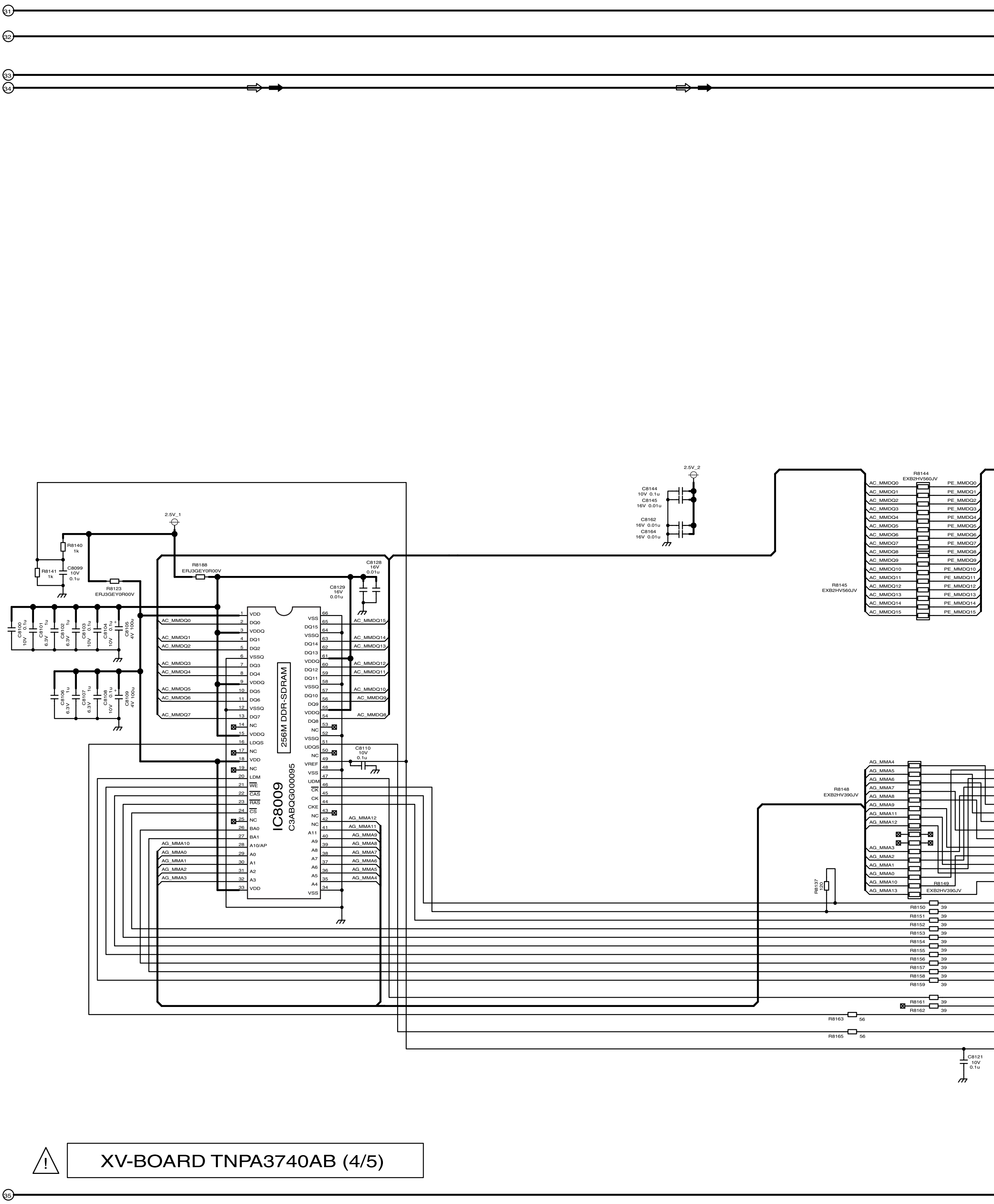
21
22
23
24
25
AE_SDWP
AE_SDCD
AE_SDAT1
AE_SDAT0
AE_SDCLK
AE_SDCMD
AE_SDAT3
AE_SDAT2
R8701 56
R8702 56
R8703 56
R8704 56
R8705 56
R8706 56
R8707 56
R8708 56
3.3V
R8732 10k
R8733 10k
R8734 10k
R8735 10k
R8736 10k
R8729 10k
R8730 10k
R8731 10k
R8355 EXB2HV104JV
R8356 EXB2HV104JV
AA_ED16
AA_ED17
AA_ED18
AA_ED19
AA_ED20
AA_ED21
AA_ED22
AA_ED23
AA_ED24
AA_ED25
AA_ED26
AA_ED27
AA_ED28
AA_ED29
AA_ED30
AA_ED31
AT_ADCCK
AT_DSRCK
R8954 10k
R8349 100k
C8240 6.3V 1u
R8611 0
R8601 0
C8509 6.3V 100u
C8504 10V 1u
IC8501
74VHCU04MXNL
VCXO27M
VCC
GND
R8615 0
R8602 100
R8603 100
R8604 100
TP8037
C8507 50V 1000p
R8608 1M
R8614 220
D8501 B0CCAB000039
R8610 3.3k
X8006 H0J270500090
R8606 100k
C8501 50V 18p
L8501 ELJNA2R7JFB
C8502 50V 18p
R8605 100k
TP8039
TP8040
C8508 16V 0.33u
C8506 16V 1u
XV-BOARD TNPA3740AB (3/5)

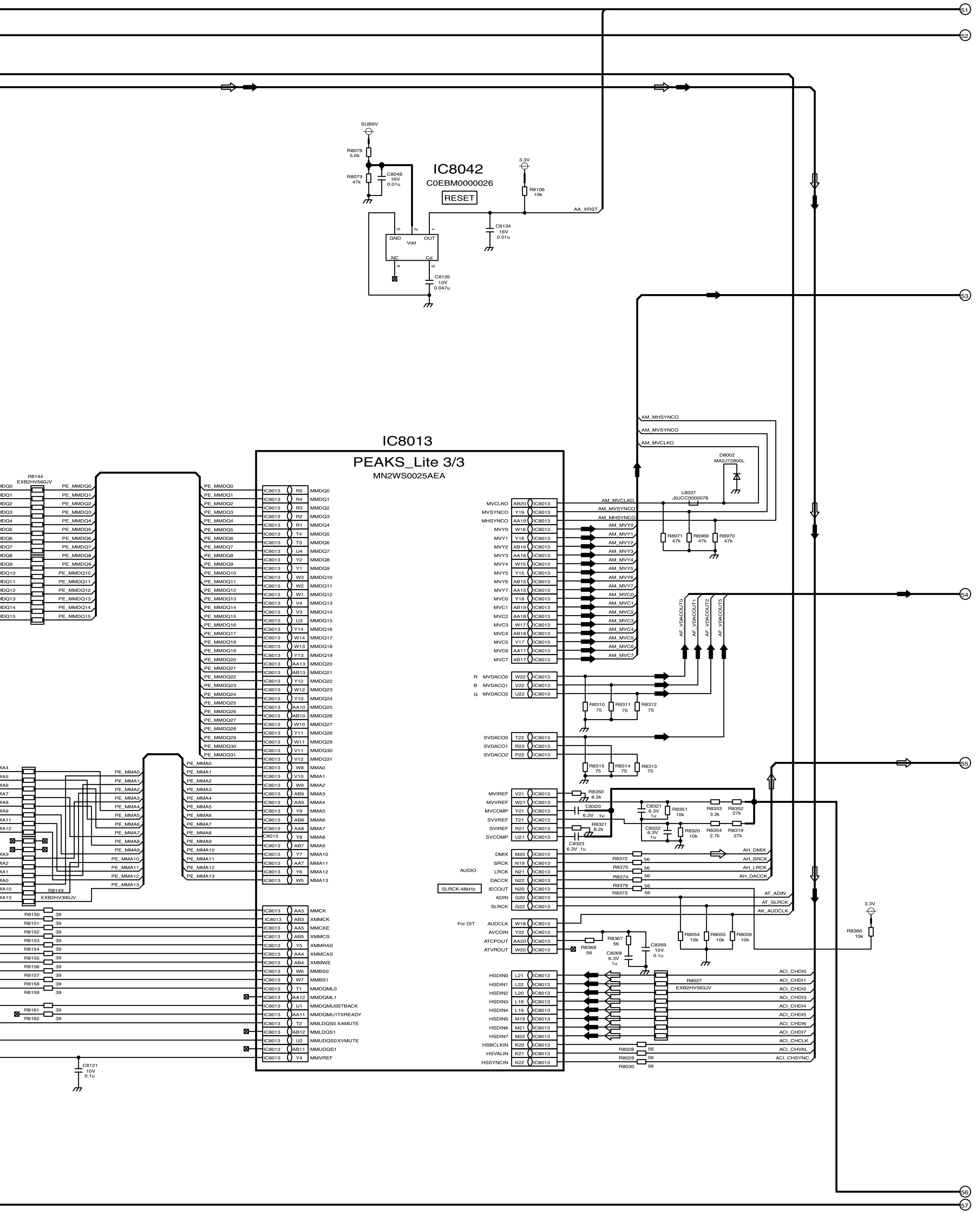

IC8013
PEAKS_Lite 1/3
MN2WS0025AEA
SD_CARD
3.3V
31
32
33
34
35
AA_XNMIRQ
AA_XIRQ0
AA_XIRQ1
AA_XIRQ2
AA_XIRQ3
AA_XIRQ4
XNMIRQ
XIRQ0 SupportCard
XIRQ1 DTTINT
XIRQ2 CI P OCP
XIRQ3 MDM INVALID
XIRQ4 -
R8260 56
R8261 56
R8262 56
R8263 56
R8269 56
R8022
R8012
R8011
R8010
R8171
R8170
10k
R8021 10k
ACI_POWER
ACI_REG
ACI_RESET
R8038 56
AT_ADCCK
AT_DSRCK
R8014
R8015
R8020
R8053
R8052
CHDATA7 CIPOWER
CHDATA6 CIREG
CHDATA5 CIRESET
CHDATA4 ADCCK
CHDATA3 DSRCK
CHDATA2 XDACRST
CHDATA1 AD_DONE
CHDATA0 SCHDATA0
CHCLK0 SCHCLK0
CHCLK1 XFERST0
CHVAL0 ENABLE0
CHPSYNC0 PSYNC0
AA_DACRST
AA_DONE
AO_SPDATA7
AO_SPCLK
AO_XFERST0
AO_SPEN
AO_SPPKTST
R8176 10k
R8173 EXB38V560JV
AA_IS0CLK
AA_IS0DATA0
AA_IS0VAL
AA_IS0SYNC
IS0CLK
IS0DATA0
IS0VAL
IS0SYNC
R8264
R8265
R8266
R8267
R8268
ACI_IORD
ACI_IOWR
ACI_XWAIT
ACI_XWE
ACI_XOE
R8104 56
R8282 56
R8284 56
R8286 56
R8287 56
SMTCLK0 XIORD
SMTD0 XIOWR
SMTSEL0 XWAIT
SMTCMD0 XWE
SMTRST0 XOE
R8932
R8931
R8828
R8827
3.9k
R8272 EXB38V560JV
AD_SCL0
AD_SDA0
AD_SCL1
AD_SDA1
SCL0
SDA0
SCL1
SDA1
AA_SBO0
AA_SBI0
AD_SBI1
ACI_XCD2
R8271 56
R8273 56
R8275 56
R8277 56
SBO0 Debug
SBI0 Debug
SBT0 -
SBO1 IPC(TV)
SBI1 IPC(TV)
SBT1 XCD2
R8172 47k
TDO
TDI
TMS
TCK
R8183 0
R8184 22k
EVTRG
DRSTMSK
TSTSEL
R8187 10k
AA_XRST
XRST
XRSTOUT
R8279 0
C8910 16V 0.01u
MCLK
MTCPOUT
DCLK
DTCPOUT
CLK74
CK27
VC27
IC8013
POWER_DET ED0
SBI2 ED1
SBO2 ED2
XCTS2 ED3
XDCD2 ED4
XDSR2 ED5
XRI2 XRI2
XDTR2 XEWE0
XRTS2 XEWE1
R8136 10k
R8195 10k
R8196 10k
AA_POWER_DET
AI_SBI2_P
AI_XCTS2_P
AI_XDCD2_P
AI_XDSR2
AI_XRI2_P
AI_XDTR2_P
AI_XRTS2_P
R8133 56
R8132 56
R8193 10k
SDWP ED6
SDCD ED7
SDDAT0 ED8
SDDAT1 ED9
SDDAT2 ED10
SDDAT3 ED11
SDCMD ED12
SDCLK ED13
AE_SDWP
AE_SDCD
AE_SDDAT0
AE_SDDAT1
AE_SDDAT2
AE_SDDAT3
AE_SDCMD
AE_SDCLK
R8290 56
R8291 56
R8292 56
NARBY ED14
AD_INIT_B ED15
AA_NAND_RY/BY
AA_INIT_B
R8216 56
R8217 56
R8215 10k
ED16 … ED31
AA_ED16 … AA_ED31
R8218 EXB2HV330JV
R8219 EXB2HV330JV
EA0 … EA24
AA_EA0 … AA_EA24
R8220 EXB2HV560JV
R8221 EXB2HV560JV
R8222 EXB2HV560JV
R8223 56
XCD1 EA25
XIREQ EA26
AT_PDWN EA27
AA_FWP EA28
XCIEAB EA29
XCIETS EA30
XCIEDBA EA31
ACI_XCD1
ACI_XIREQ
AT_PDWN
AA_FWP
ACI_XEAB
ACI_XETS
ACI_XEDBA
R8175
R8225
R8201
R8202
R8203
10k
R8204 10k
ECLK
Flash XECS0
SUPPORT CARD XECS1
XECS2
CI XECS3
XECS4
AD XECS5
XERE
XEWE2
XEWE3
PROM_RST ESZ0
AD_PROG_B ESZ1
CLKCTRL XEAS
XEDK
ERXW
INSPECTION XEBRQ
FORMAT_EDGE XEBGT
XEXDMR0
XEXDMK0
BOOTSWAP
XNFRE
XNFWE
R8232 33
R8233 33
R8234 33
R8235 33
R8236 33
R8237 33
R8238 33
R8239 33
R8240 33
R8242 33
R8245 33
R8246 33
AA_XECS0
AA_XECS1
AA_XECS2
AA_XECS3
AA_XECS4
AA_XECS5
AA_XERE
AA_XEWE2
AA_XEWE3
AA_ESZ0
AA_ESZ1
AA_CLKSEL
AA_XEDK
AA_ERXW
AA_FORMAT_EDGE
AA_BOOTSWAP
R8241 33
R8243 33
R8167 10k
R8255 10k
R8256 4.7k
R8257 10k
R8259 10k
TP8029
R8244 10k
R8224 10k
R8250 10k
R8226 33
R8252 33
R8168 10k
R8253 33
R8254 33
R8169 10k

TH-50PV60E, TH-50PX60B
XV-Board (3 of 5) Schematic Diagram

23 24 25 26 27

14.32. XV-Board (4 of 5) Schematic Diagram (PX60B)

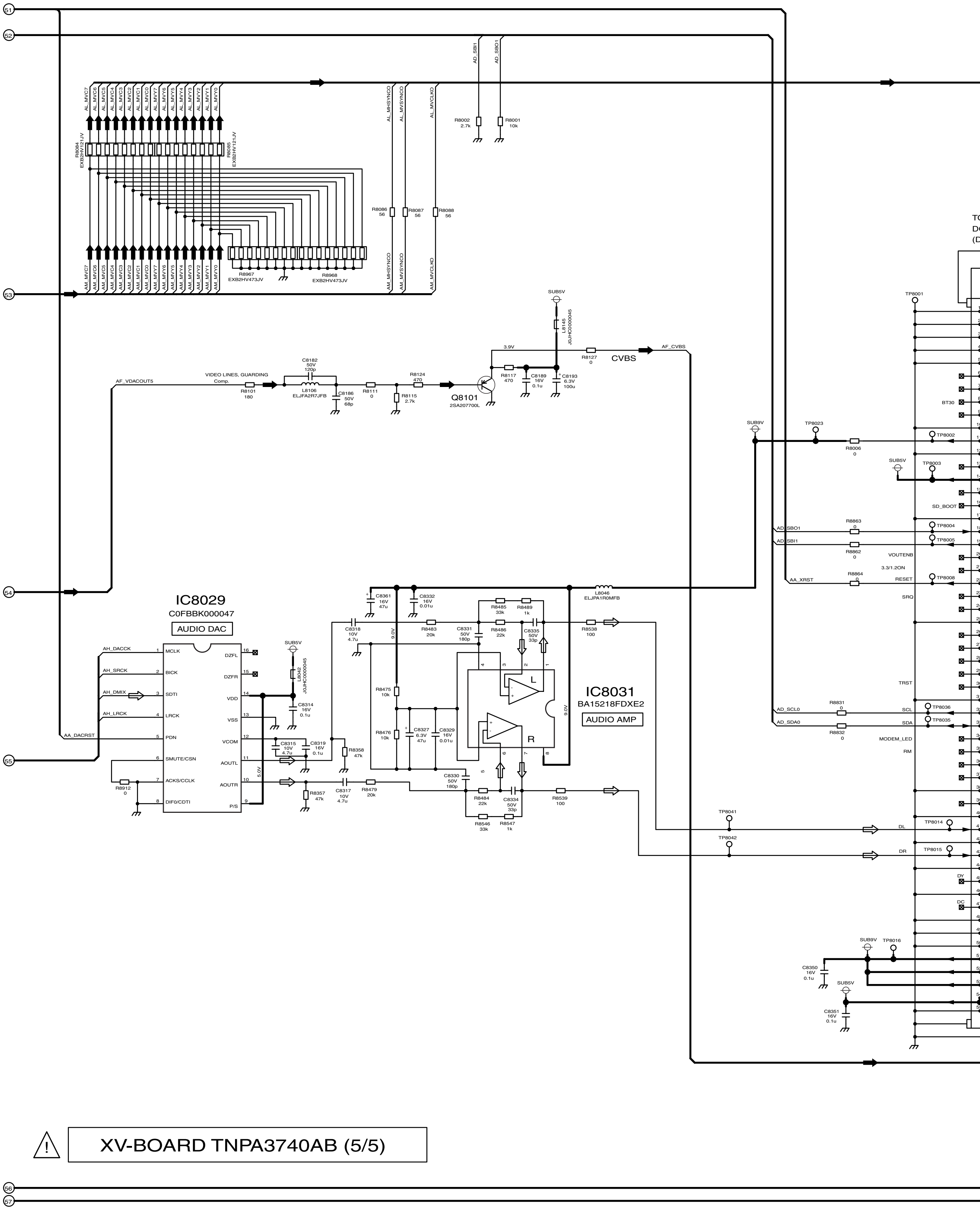

31
32
33
34
35
2.5V_1
2.5V_2
R8140 1k
R8141 1k
C8099 10V 0.1u
R8123 ERJ3GEY0R00V
R8188 ERJ3GEY0R00V
C8128 16V 0.01u
C8129 16V 0.01u
C8100 10V 0.1u
C8101 6.3V 1u
C8102 6.3V 1u
C8103 10V 0.1u
C8104 10V 0.1u
C8105 4V 100u
C8106 6.3V 1u
C8107 6.3V 1u
C8108 10V 0.1u
C8109 4V 100u
C8110 10V 0.1u
C8144 10V 0.1u
C8145 16V 0.01u
C8162 16V 0.01u
C8164 16V 0.01u
IC8009
C3ABQG000095
256M DDR-SDRAM
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
DQ5
DQ6
DQ7
NC
LDQS
LDM
WE
CAS
RAS
CS
BA0
BA1
A10/AP
A0
A1
A2
A3
VSS
DQ15
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
UDQS
VREF
UDM
CK
CKE
A11
A9
A8
A7
A6
A5
A4
AC_MMDQ0
AC_MMDQ1
AC_MMDQ2
AC_MMDQ3
AC_MMDQ4
AC_MMDQ5
AC_MMDQ6
AC_MMDQ7
AC_MMDQ8
AC_MMDQ9
AC_MMDQ10
AC_MMDQ11
AC_MMDQ12
AC_MMDQ13
AC_MMDQ14
AC_MMDQ15
AG_MMA0
AG_MMA1
AG_MMA2
AG_MMA3
AG_MMA4
AG_MMA5
AG_MMA6
AG_MMA7
AG_MMA8
AG_MMA9
AG_MMA10
AG_MMA11
AG_MMA12
AG_MMA13
R8144 EXB2HV560JV
R8145 EXB2HV560JV
PE_MMDQ0
PE_MMDQ1
PE_MMDQ2
PE_MMDQ3
PE_MMDQ4
PE_MMDQ5
PE_MMDQ6
PE_MMDQ7
PE_MMDQ8
PE_MMDQ9
PE_MMDQ10
PE_MMDQ11
PE_MMDQ12
PE_MMDQ13
PE_MMDQ14
PE_MMDQ15
R8148 EXB2HV390JV
R8149 EXB2HV390JV
R8137 120
R8150 39
R8151 39
R8152 39
R8153 39
R8154 39
R8155 39
R8156 39
R8157 39
R8158 39
R8159 39
R8161 39
R8162 39
R8163 56
R8165 56
C8121 10V 0.1u
XV-BOARD TNPA3740AB (4/5)


IC8042
C0EBM0000026
RESET
SUB9V
R8078 5.6k
R8079 47k
C8048 16V 0.01u
3.3V
R8106 10k
AA_XRST
C8134 16V 0.01u
GND
Vdd
OUT
NC
Cd
C8135 10V 0.047u
IC8013
PEAKS_Lite 3/3
MN2WS0025AEA
R8144 EXB2HV560JV
R8149 EXB2HV390JV
AM_MHSYNCO
AM_MVSYNCO
AM_MVCLKO
D8002 MA2J72800L
L8037 J0JCC0000078
R8971 47k
R8969 47k
R8970 47k
AF_VDACOUT0
AF_VDACOUT1
AF_VDACOUT2
AF_VDACOUT5
R8310 75
R8311 75
R8312 75
R8315 75
R8314 75
R8313 75
R8350 8.2k
C8320 6.3V 1u
R8321 8.2k
C8323 6.3V 1u
C8321 6.3V 1u
C8322 6.3V 1u
R8351 10k
R8320 10k
R8353 3.3k
R8352 27k
R8354 2.7k
R8319 27k
AUDIO
SLRCK:48kHz
For DIT
AH_DMIX
AH_SRCK
AH_LRCK
AH_DACCK
AT_ADIN
AT_SLRCK
AK_AUDCLK
R8054 10k
R8055 10k
R8059 10k
R8366 10k
R8367 56
R8368 56
C8268 6.3V 1u
C8269 10V 0.1u
R8027 EXB2HV560JV
ACI_CHDI0
ACI_CHDI1
ACI_CHDI2
ACI_CHDI3
ACI_CHDI4
ACI_CHDI5
ACI_CHDI6
ACI_CHDI7
ACI_CHCLK
ACI_CHVAL
ACI_CHSYNC
R8028 56
R8029 56
R8030 56
C8121 10V 0.1u
(51)
(52)
(53)
(54)
(55)
(56)
(57)

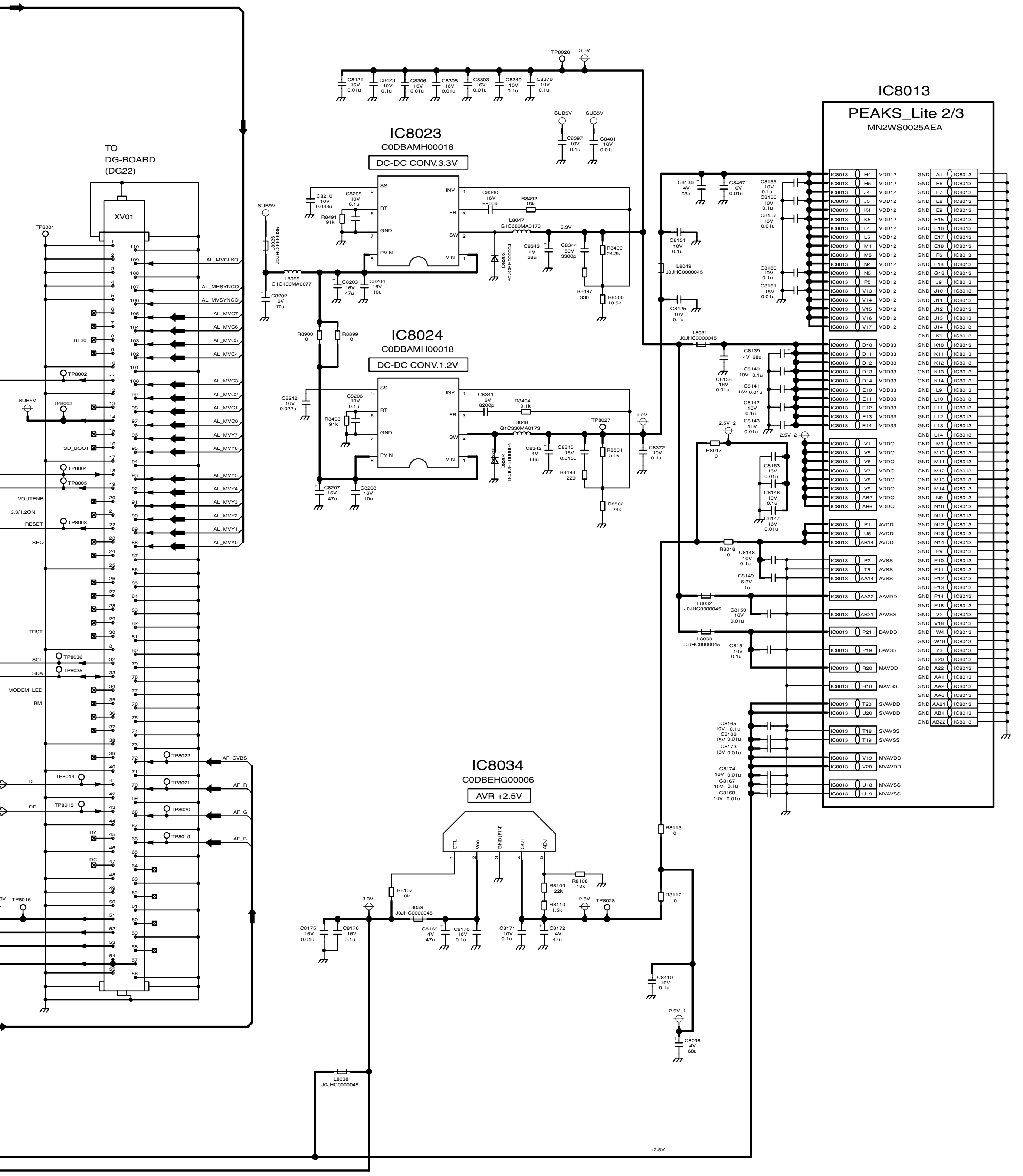
TH-50PV60E, TH-50PX60B
XV-Board (4 of 5) Schematic Diagram

32	33	34	35	36

14.33. XV-Board (5 of 5) Schematic Diagram (PX60B)


IC8029
C0FBBK000047
AUDIO DAC
MCLK
BICK
SDTI
LRCK
PDN
SMUTE/CSN
ACKS/CCLK
DIF0/CDTI
DZFL
DZFR
VDD
VSS
VCOM
AOUTL
AOUTR
P/S
AH_DACCK
AH_SRCK
AH_DMIX
AH_LRCK
AA_DACRST
IC8031
BA15218FDXE2
AUDIO AMP
Q8101
2SA2077O0L
CVBS
AF_CVBS
AF_VDACOUT5
VIDEO LINES, GUARDING Comp.
SUB5V
SUB9V
AD_SBI1
AD_SBO1
AL_MHSYNCO
AL_MVSYNCO
AL_MVCLKO
AM_MHSYNCO
AM_MVSYNCO
AM_MVCLKO
R8084 EXB2HV121JV
R8085 EXB2HV121JV
R8967 EXB2HV473JV
R8968 EXB2HV473JV
L8145 J0JHC0000045
L8042 J0JHC0000045
L8046 ELJPA1R0MFB
L8106 ELJFA2R7JFB
AD_SCL0
AD_SDA0
AA_XRST
SCL
SDA
RESET
SRQ
TRST
VOUTENB
3.3/1.2ON
SD_BOOT
BT30
MODEM_LED
RM
DL
DR
DY
DC
TP8001
TP8002
TP8003
TP8004
TP8005
TP8008
TP8014
TP8015
TP8016
TP8023
TP8035
TP8036
TP8041
TP8042
XV-BOARD TNPA3740AB (5/5)
(51)
(52)
(53)
(54)
(55)
(56)
(57)

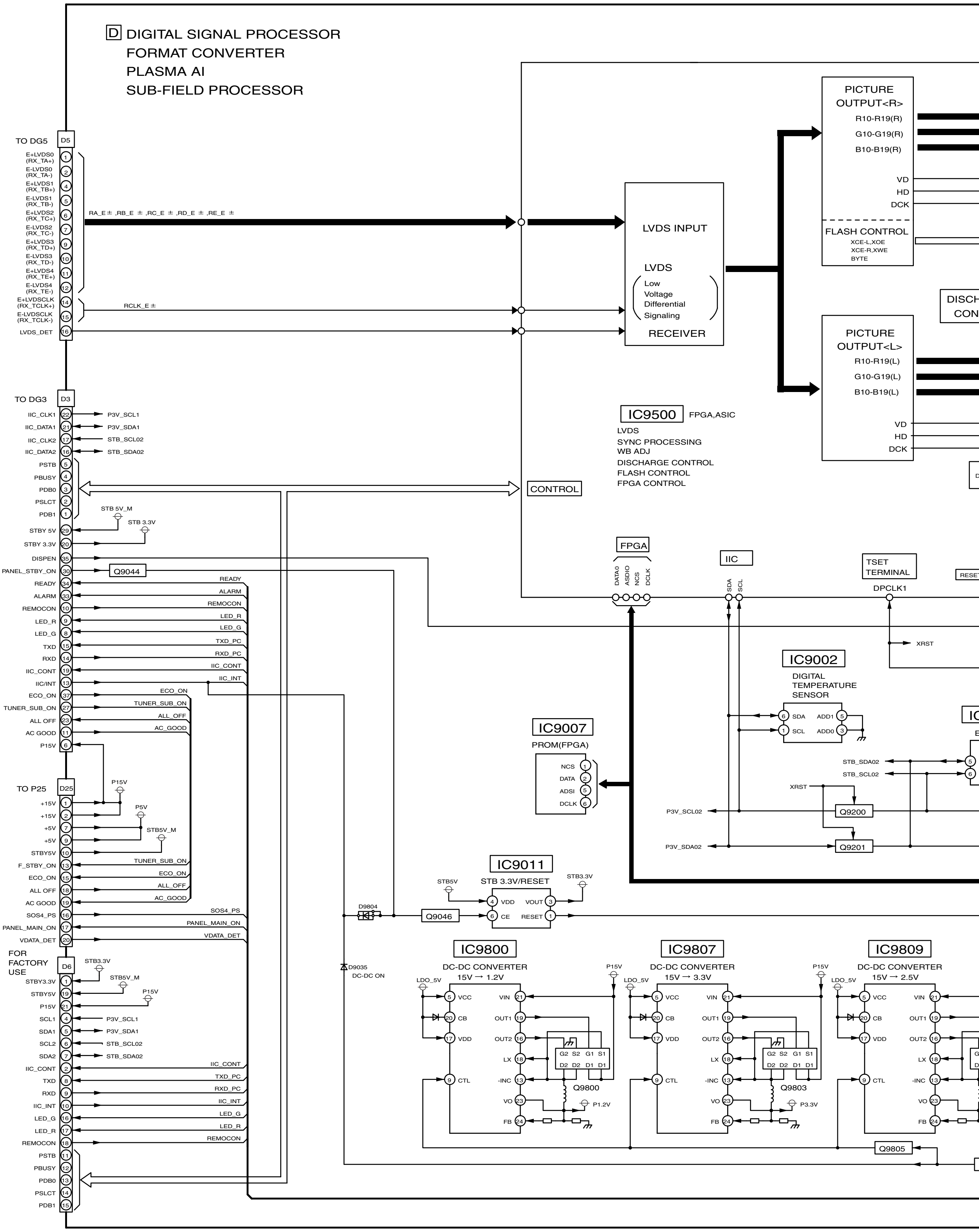
TH-50PV60E, TH-50PX60B
XV-Board (5 of 5) Schematic Diagram


IC8013
PEAKS_Lite 2/3
MN2WS0025AEA
IC8023
C0DBAMH00018
DC-DC CONV.3.3V
IC8024
C0DBAMH00018
DC-DC CONV.1.2V
IC8034
C0DBEHG00006
AVR +2.5V
TO
DG-BOARD
(DG22)
XV01
SS
RT
GND
PVIN
INV
FB
SW
VIN
CTL
Vcc
GND(FIN)
OUT
ADJ
3.3V
1.2V
2.5V
2.5V_1
2.5V_2
+2.5V
SUB5V
SUB9V
TP8001
TP8002
TP8003
TP8004
TP8005
TP8008
TP8014
TP8015
TP8016
TP8019
TP8020
TP8021
TP8022
TP8026
TP8027
TP8028
TP8035
TP8036
AL_MVCLKO
AL_MHSYNCO
AL_MVSYNCO
AL_MVC7
AL_MVC6
AL_MVC5
AL_MVC4
AL_MVC3
AL_MVC2
AL_MVC1
AL_MVC0
AL_MVY7
AL_MVY6
AL_MVY5
AL_MVY4
AL_MVY3
AL_MVY2
AL_MVY1
AL_MVY0
AF_CVBS
AF_R
AF_G
AF_B
BT30
SD_BOOT
VOUTENB
3.3/1.2ON
RESET
SRQ
TRST
SCL
SDA
MODEM_LED
RM
DL
DR
DY
DC
L8055 G1C100MA0077
L8047 G1C680MA0173
L8048 G1C330MA0173
L8049 J0JHC0000045
L8031 J0JHC0000045
L8032 J0JHC0000045
L8033 J0JHC0000045
L8038 J0JHC0000045
L8059 J0JHC0000045
D8203 B0JCPE000004
D8204 B0JCPE000004
VDD12
VDD33
VDDQ
AVDD
AVSS
AAVDD
AAVSS
DAVDD
DAVSS
MAVDD
MAVSS
SVAVDD
SVAVSS
MVAVDD
MVAVSS
GND

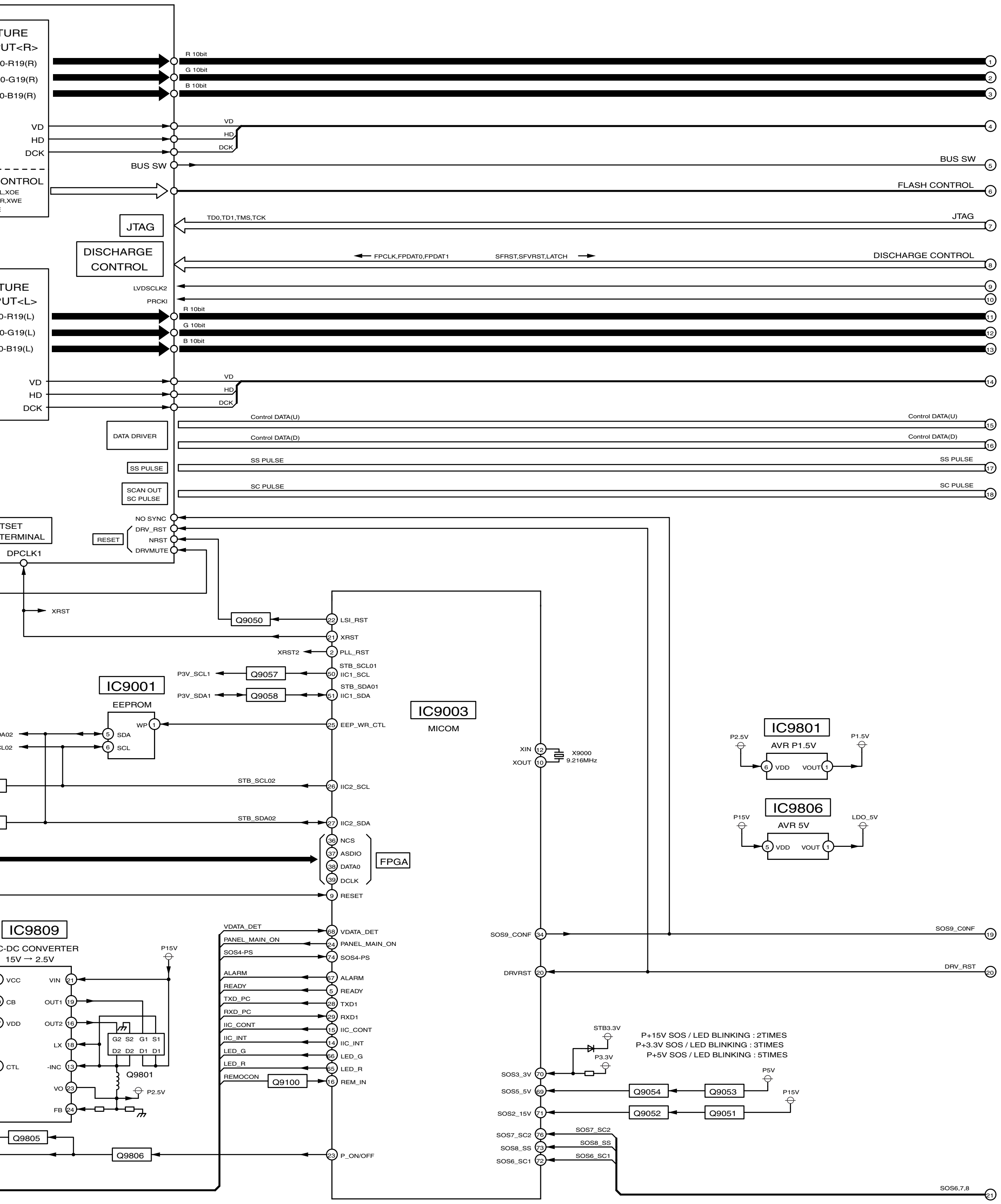
TH-50PV60E, TH-50PX60B
XV-Board (5 of 5) Schematic Diagram

41	42	43	44	45

14.34. D-Board (1 of 2) Block Diagram


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
TO DG5
D5
E+LVDS0 (RX_TA+)
E-LVDS0 (RX_TA-)
E+LVDS1 (RX_TB+)
E-LVDS1 (RX_TB-)
E+LVDS2 (RX_TC+)
E-LVDS2 (RX_TC-)
E+LVDS3 (RX_TD+)
E-LVDS3 (RX_TD-)
E+LVDS4 (RX_TE+)
E-LVDS4 (RX_TE-)
E+LVDSCLK (RX_TCLK+)
E-LVDSCLK (RX_TCLK-)
LVDS_DET
RA_E± ,RB_E ± ,RC_E ± ,RD_E ± ,RE_E ±
RCLK_E±
LVDS INPUT
LVDS
Low
Voltage
Differential
Signaling
RECEIVER
PICTURE OUTPUT<R>
R10-R19(R)
G10-G19(R)
B10-B19(R)
VD
HD
DCK
FLASH CONTROL
XCE-L,XOE
XCE-R,XWE
BYTE
DISCH
CON
PICTURE OUTPUT<L>
R10-R19(L)
G10-G19(L)
B10-B19(L)
VD
HD
DCK
IC9500
FPGA,ASIC
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
CONTROL
TO DG3
D3
IIC_CLK1
IIC_DATA1
IIC_CLK2
IIC_DATA2
PSTB
PBUSY
PDB0
PSLCT
PDB1
P3V_SCL1
P3V_SDA1
STB_SCL02
STB_SDA02
STB 5V_M
STB 3.3V
STBY 5V
STBY 3.3V
DISPEN
PANEL_STBY_ON
READY
ALARM
REMOCON
LED_R
LED_G
TXD
RXD
IIC_CONT
IIC/INT
ECO_ON
TUNER_SUB_ON
ALL OFF
AC GOOD
P15V
Q9044
TXD_PC
RXD_PC
IIC_INT
ALL_OFF
AC_GOOD
FPGA
DATA0
ASDIO
NCS
DCLK
IIC
SDA
SCL
TSET TERMINAL
DPCLK1
RESET
XRST
IC9002
DIGITAL TEMPERATURE SENSOR
SDA
SCL
ADD1
ADD0
IC9007
PROM(FPGA)
NCS
DATA
ADSI
DCLK
STB_SDA02
STB_SCL02
XRST
Q9200
Q9201
P3V_SCL02
P3V_SDA02
TO P25
D25
+15V
+5V
STBY5V
F_STBY_ON
ECO_ON
ALL OFF
AC GOOD
SOS4_PS
PANEL_MAIN_ON
VDATA_DET
P15V
P5V
STB5V_M
IC9011
STB 3.3V/RESET
STB5V
STB3.3V
VDD
VOUT
CE
RESET
D9804
Q9046
D9035
DC-DC ON
FOR FACTORY USE
D6
STBY3.3V
STBY5V
P15V
SCL1
SDA1
SCL2
SDA2
IIC_CONT
TXD
RXD
IIC_INT
LED_G
LED_R
REMOCON
PSTB
PBUSY
PDB0
PSLCT
PDB1
STB3.3V
STB5V_M
P3V_SCL1
P3V_SDA1
STB_SCL02
STB_SDA02
IC9800
DC-DC CONVERTER
15V → 1.2V
LDO_5V
VCC
CB
VDD
CTL
VIN
OUT1
OUT2
LX
-INC
VO
FB
G2 S2 G1 S1
D2 D2 D1 D1
Q9800
P1.2V
IC9807
DC-DC CONVERTER
15V → 3.3V
Q9803
P3.3V
IC9809
DC-DC CONVERTER
15V → 2.5V
Q9805

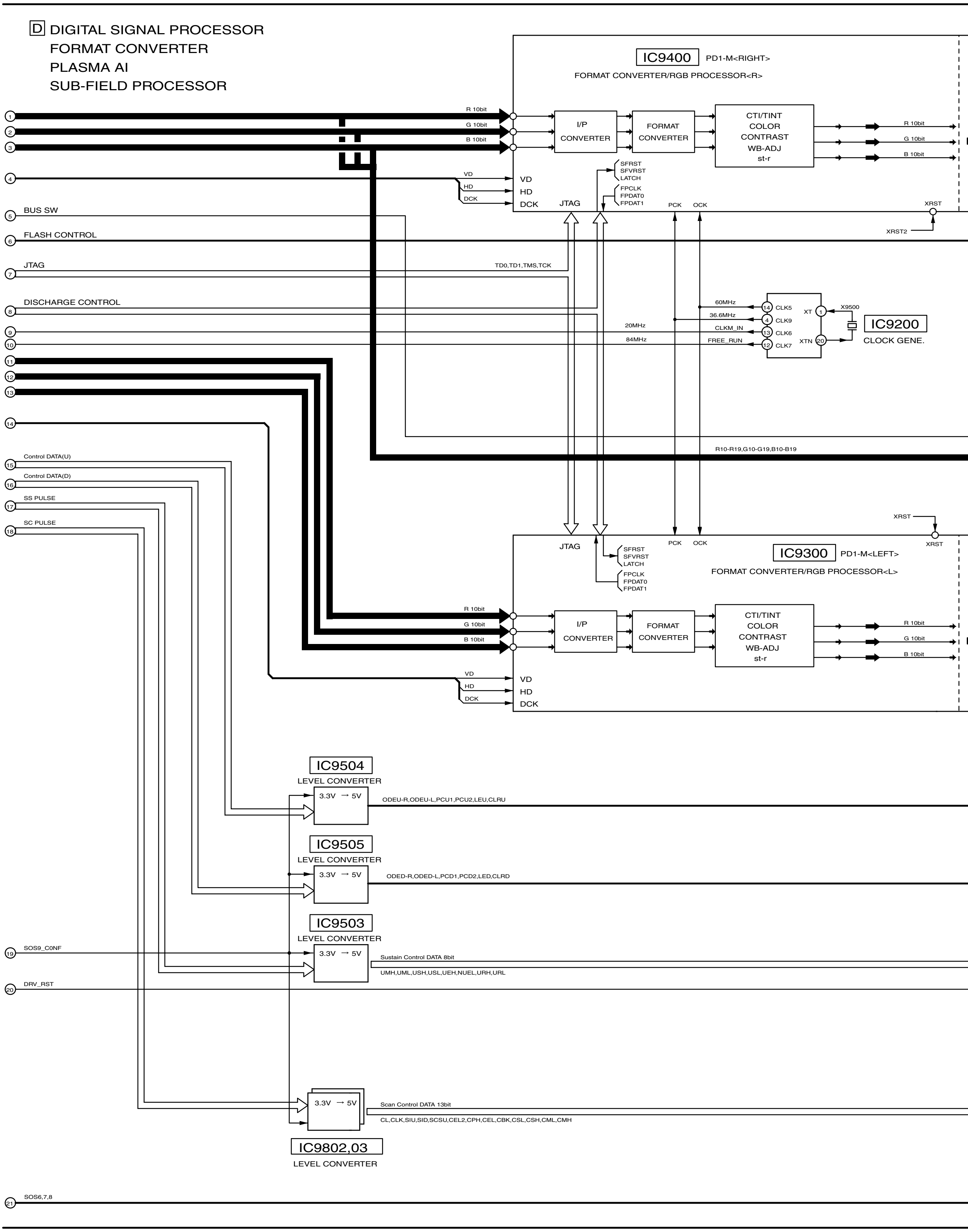
TH-50PV60E, TH-50PX60B
D-Board (1 of 2) Block Diagram

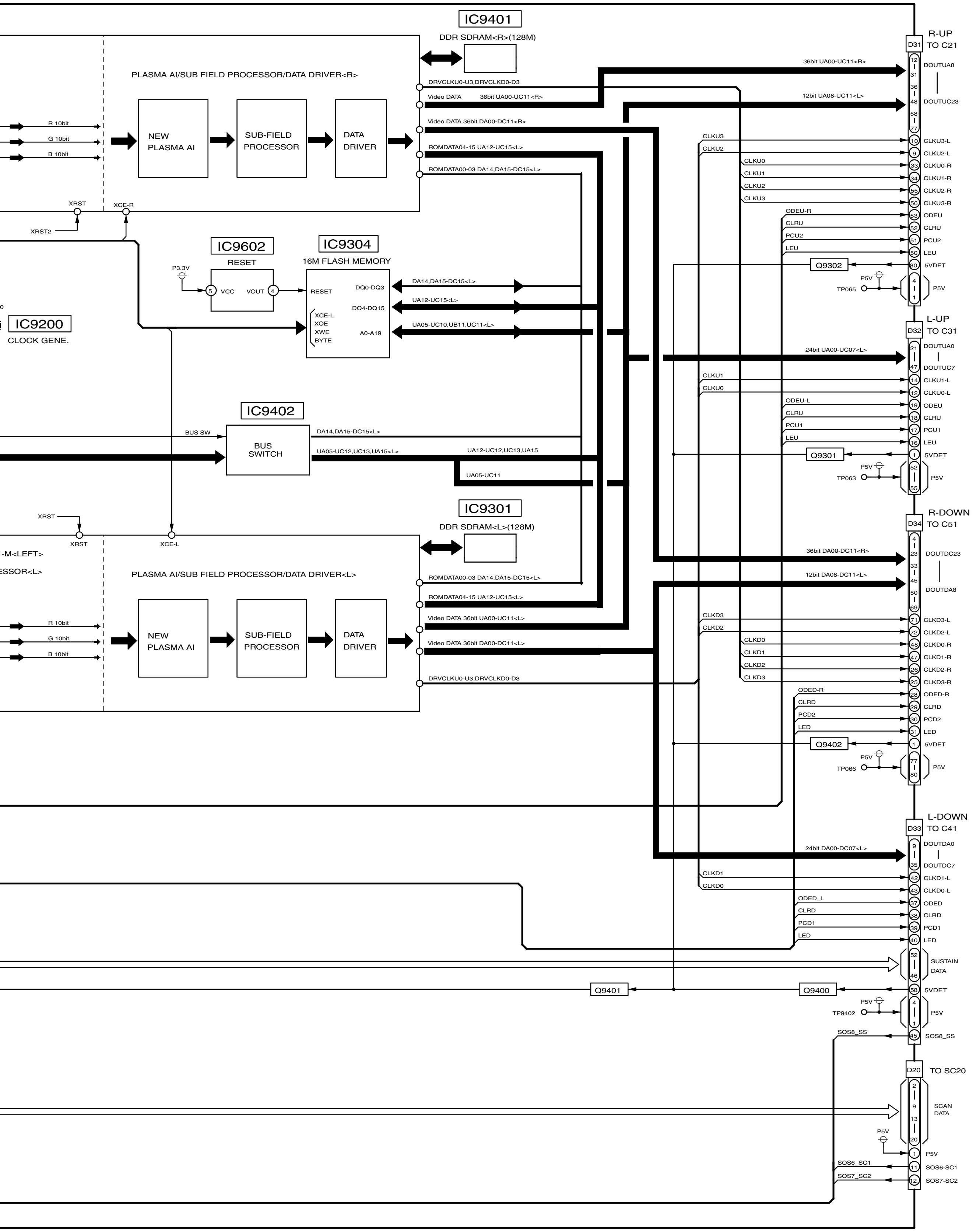


TURE
UT<R>
0-R19(R)
0-G19(R)
0-B19(R)
R 10bit
G 10bit
B 10bit
VD
HD
DCK
BUS SW
ONTROL
,XOE
R,XWE
FLASH CONTROL
JTAG
TD0,TD1,TMS,TCK
DISCHARGE CONTROL
FPCLK,FPDAT0,FPDAT1
SFRST,SFVRST,LATCH
TURE
PUT<L>
0-R19(L)
0-G19(L)
0-B19(L)
LVDSCLK2
PRCKI
DATA DRIVER
Control DATA(U)
Control DATA(D)
SS PULSE
SCAN OUT
SC PULSE
TSET
TERMINAL
RESET
NO SYNC
DRV_RST
NRST
DRVMUTE
DPCLK1
XRST
Q9050
LSI_RST
XRST2
PLL_RST
P3V_SCL1
Q9057
STB_SCL01
IIC1_SCL
P3V_SDA1
Q9058
STB_SDA01
IIC1_SDA
IC9001
EEPROM
WP
SDA
SCL
DA02
L02
EEP_WR_CTL
IC9003
MICOM
STB_SCL02
IIC2_SCL
STB_SDA02
IIC2_SDA
NCS
ASDIO
DATA0
DCLK
FPGA
XIN
XOUT
X9000
9.216MHz
IC9801
AVR P1.5V
P2.5V
P1.5V
VDD
VOUT
IC9806
AVR 5V
P15V
LDO_5V
IC9809
C-DC CONVERTER
15V → 2.5V
VCC
VIN
CB
OUT1
VDD
OUT2
LX
CTL
-INC
VO
FB
G2 S2 G1 S1
D2 D2 D1 D1
Q9801
P2.5V
VDATA_DET
PANEL_MAIN_ON
SOS4-PS
ALARM
READY
TXD_PC
TXD1
RXD_PC
RXD1
IIC_CONT
IIC_INT
LED_G
LED_R
REMOCON
Q9100
REM_IN
Q9805
Q9806
P_ON/OFF
SOS9_CONF
DRVRST
STB3.3V
P3.3V
P+15V SOS / LED BLINKING : 2TIMES
P+3.3V SOS / LED BLINKING : 3TIMES
P+5V SOS / LED BLINKING : 5TIMES
P5V
SOS3_3V
SOS5_5V
Q9054
Q9053
SOS2_15V
Q9052
Q9051
SOS7_SC2
SOS8_SS
SOS6_SC1
SOS6,7,8
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

TH-50PV60E, TH-50PX60B
D-Board (1 of 2) Block Diagram

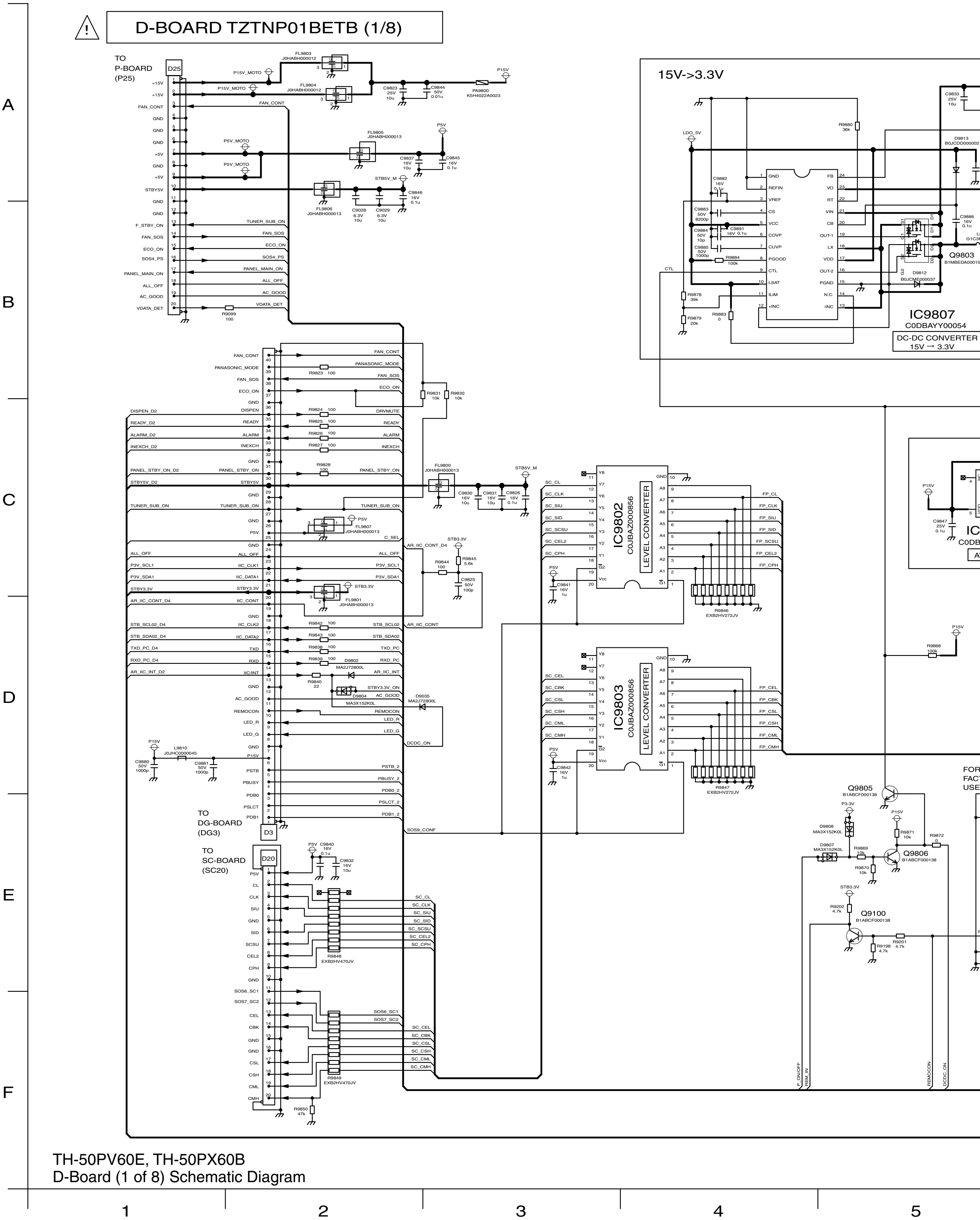
14.35. D-Board (2 of 2) Block Diagram


D
DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
IC9400
PD1-M<RIGHT>
FORMAT CONVERTER/RGB PROCESSOR<R>
R 10bit
G 10bit
B 10bit
I/P CONVERTER
FORMAT CONVERTER
CTI/TINT COLOR CONTRAST WB-ADJ st-r
VD
HD
DCK
JTAG
SFRST
SFVRST
LATCH
FPCLK
FPDAT0
FPDAT1
PCK
OCK
XRST
XRST2
1
2
3
4
5
BUS SW
6
FLASH CONTROL
7
JTAG
TD0,TD1,TMS,TCK
8
DISCHARGE CONTROL
9
10
11
12
13
14
20MHz
84MHz
60MHz
36.6MHz
CLKM_IN
FREE_RUN
CLK5
CLK9
CLK6
CLK7
XT
XTN
X9500
IC9200
CLOCK GENE.
R10-R19,G10-G19,B10-B19
15
Control DATA(U)
16
Control DATA(D)
17
SS PULSE
18
SC PULSE
IC9300
PD1-M<LEFT>
FORMAT CONVERTER/RGB PROCESSOR<L>
IC9504
LEVEL CONVERTER
3.3V → 5V
ODEU-R,ODEU-L,PCU1,PCU2,LEU,CLRU
IC9505
LEVEL CONVERTER
ODED-R,ODED-L,PCD1,PCD2,LED,CLRD
IC9503
LEVEL CONVERTER
19
SOS9_C0NF
Sustain Control DATA 8bit
UMH,UML,USH,USL,UEH,NUEL,URH,URL
20
DRV_RST
Scan Control DATA 13bit
CL,CLK,SIU,SID,SCSU,CEL2,CPH,CEL,CBK,CSL,CSH,CML,CMH
IC9802,03
LEVEL CONVERTER
21
SOS6,7,8


IC9401
DDR SDRAM<R>(128M)
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<R>
R 10bit
G 10bit
B 10bit
NEW PLASMA AI
SUB-FIELD PROCESSOR
DATA DRIVER
DRVCLKU0-U3,DRVCLKD0-D3
Video DATA 36bit UA00-UC11<R>
Video DATA 36bit DA00-DC11<R>
ROMDATA04-15 UA12-UC15<L>
ROMDATA00-03 DA14,DA15-DC15<L>
36bit UA00-UC11<R>
12bit UA08-UC11<L>
XRST
XCE-R
XRST2
IC9602
RESET
P3.3V
VCC
VOUT
IC9304
16M FLASH MEMORY
RESET
XCE-L
XOE
XWE
BYTE
DQ0-DQ3
DQ4-DQ15
A0-A19
DA14,DA15-DC15<L>
UA12-UC15<L>
UA05-UC10,UB11,UC11<L>
IC9200
CLOCK GENE.
IC9402
BUS SW
BUS SWITCH
DA14,DA15-DC15<L>
UA05-UC12,UC13,UA15<L>
UA12-UC12,UC13,UA15
UA05-UC11
24bit UA00-UC07<L>
IC9301
DDR SDRAM<L>(128M)
XRST
XCE-L
-M<LEFT>
ESSOR<L>
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<L>
ROMDATA00-03 DA14,DA15-DC15<L>
ROMDATA04-15 UA12-UC15<L>
Video DATA 36bit UA00-UC11<L>
Video DATA 36bit DA00-DC11<L>
DRVCLKU0-U3,DRVCLKD0-D3
36bit DA00-DC11<R>
12bit DA08-DC11<L>
24bit DA00-DC07<L>
CLKU3
CLKU2
CLKU0
CLKU1
CLKU2
CLKU3
ODEU-R
CLRU
PCU2
LEU
Q9302
P5V
TP065
R-UP
D31
TO C21
DOUTUA8
DOUTUC23
CLKU3-L
CLKU2-L
CLKU0-R
CLKU1-R
CLKU2-R
CLKU3-R
ODEU
CLRU
PCU2
LEU
5VDET
P5V
L-UP
D32
TO C31
DOUTUA0
DOUTUC7
CLKU1
CLKU0
ODEU-L
CLRU
PCU1
LEU
Q9301
TP063
CLKU1-L
CLKU0-L
ODEU
CLRU
PCU1
LEU
5VDET
P5V
R-DOWN
D34
TO C51
DOUTDC23
DOUTDA8
CLKD3
CLKD2
CLKD0
CLKD1
CLKD2
CLKD3
ODED-R
CLRD
PCD2
LED
Q9402
TP066
CLKD3-L
CLKD2-L
CLKD0-R
CLKD1-R
CLKD2-R
CLKD3-R
ODED-R
CLRD
PCD2
LED
5VDET
P5V
L-DOWN
D33
TO C41
DOUTDA0
DOUTDC7
CLKD1
CLKD0
ODED_L
CLRD
PCD1
LED
CLKD1-L
CLKD0-L
ODED
CLRD
PCD1
LED
SUSTAIN DATA
Q9401
Q9400
5VDET
TP9402
P5V
SOS8_SS
SOS8_SS
D20
TO SC20
SCAN DATA
P5V
SOS6_SC1
SOS7_SC2
SOS6-SC1
SOS7-SC2

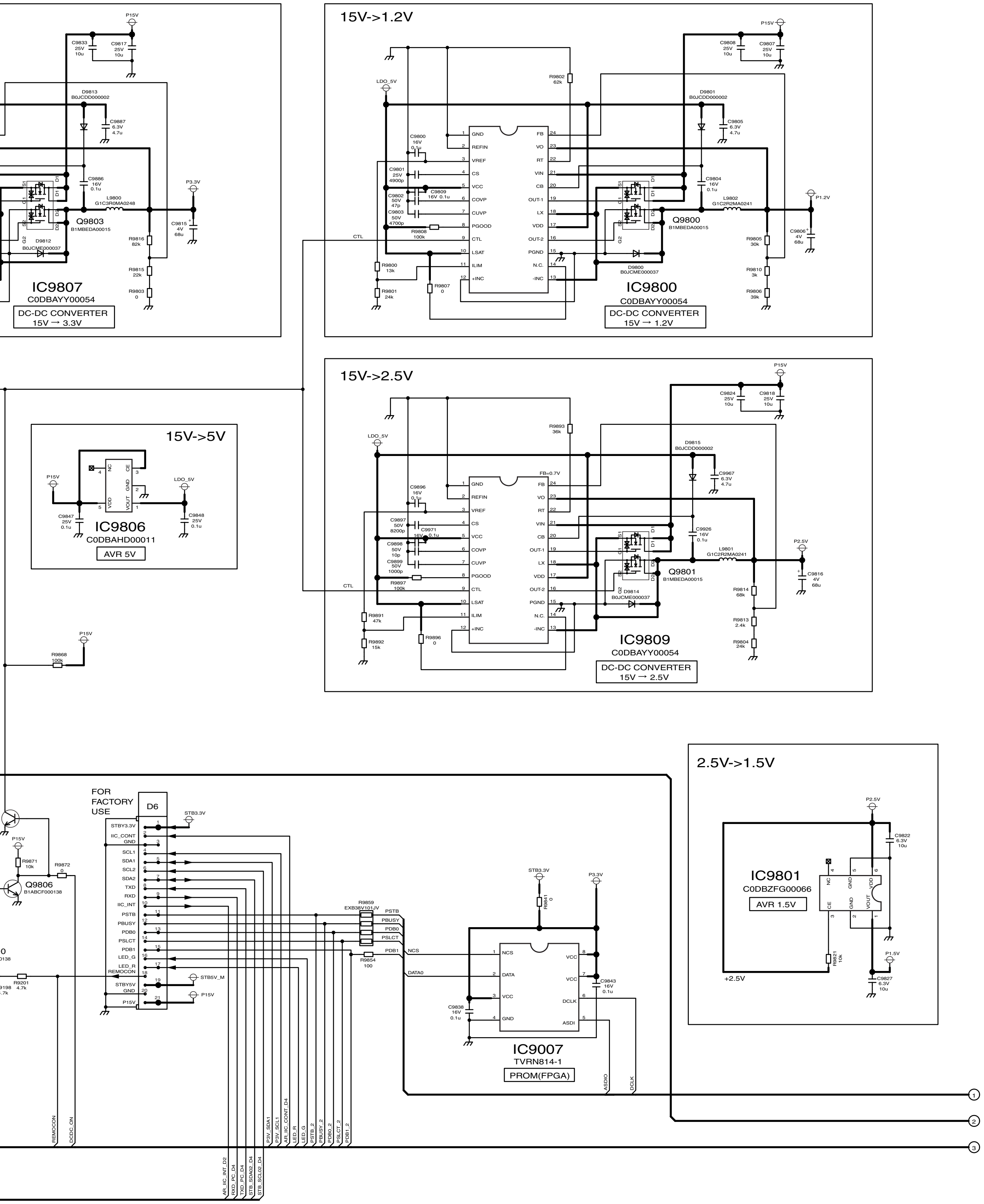
TH-50PV60E, TH-50PX60B
D-Board (2 of 2) Block Diagram

14.36. D-Board (1 of 8) Schematic Diagram



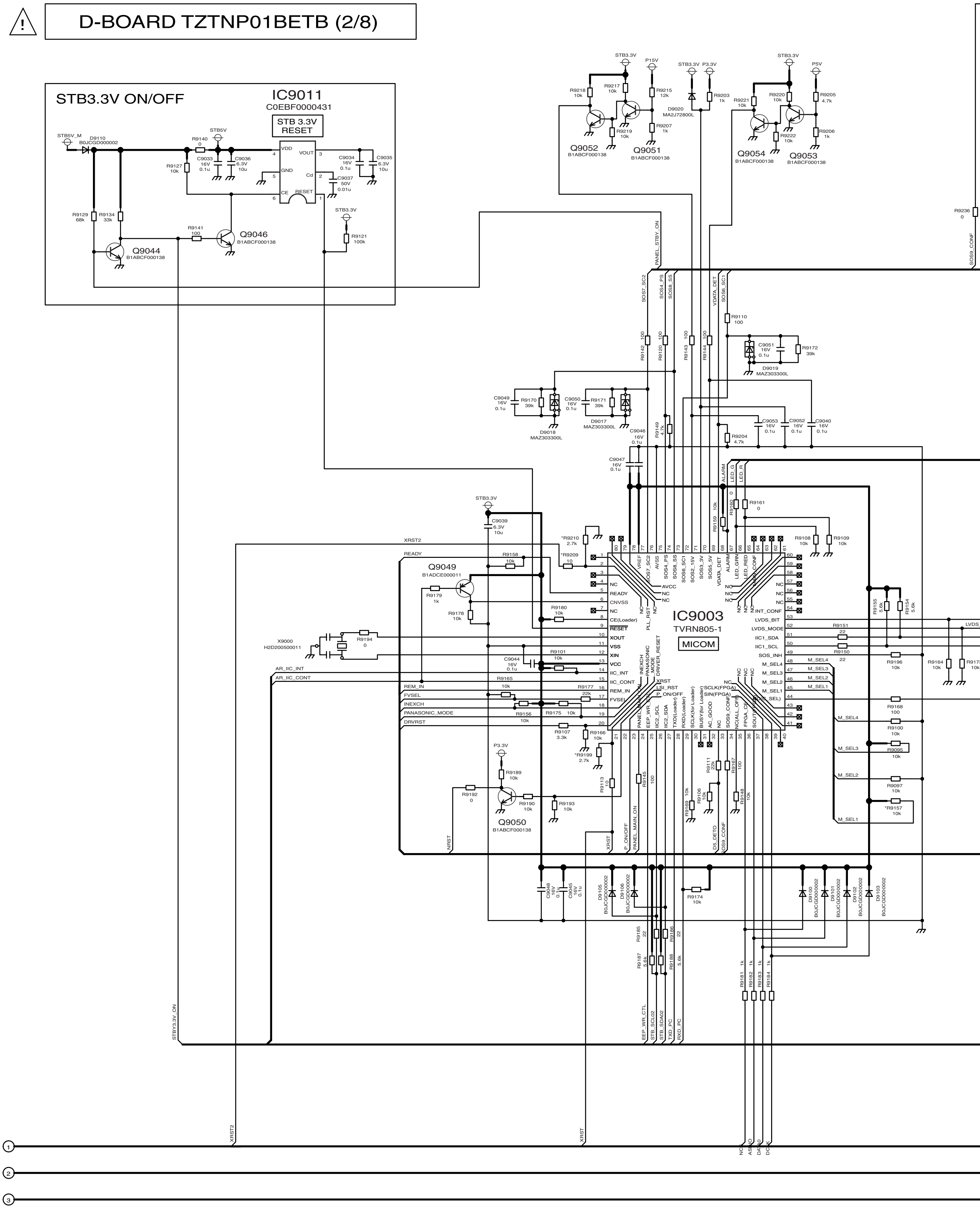
D-BOARD TZTNP01BETB (1/8)
TO P-BOARD (P25)
D25
P15V_MOTO
P5V_MOTO
FL9803 J0HABH000012
FL9804 J0HABH000012
FL9805 J0HABH000013
FL9806 J0HABH000013
C9823 25V 10u
C9844 50V 0.01u
PA9800 K5H4022A0023
C9837 16V 10u
C9845 16V 0.1u
STB5V_M
C9846 16V 0.1u
C9028 6.3V 10u
C9029 6.3V 10u
+15V
FAN_CONT
GND
+5V
STBY5V
F_STBY_ON
FAN_SOS
ECO_ON
SOS4_PS
PANEL_MAIN_ON
ALL_OFF
AC_GOOD
VDATA_DET
TUNER_SUB_ON
R9099 100
15V->3.3V
LDO_5V
R9880 36k
C9833 25V 10u
D9813 B0JCDD000002
C9882 16V 0.1u
C9883 50V 8200p
C9884 50V 10p
C9885 50V 1000p
C9891 16V 0.1u
R9884 100k
CTL
R9878 39k
R9879 20k
R9883 0
GND
REFIN
VREF
CS
VCC
COVP
CUVP
PGOOD
LSAT
ILIM
+INC
FB
VO
RT
VIN
CB
OUT-1
LX
VDD
OUT-2
PGND
N.C.
-INC
C9886 16V 0.1u
Q9803 B1MBEDA00015
D9812 B0JCME000037
IC9807 C0DBAYY00054
DC-DC CONVERTER 15V → 3.3V
PANASONIC_MODE
DISPEN_D2
READY_D2
ALARM_D2
INEXCH_D2
PANEL_STBY_ON_D2
STBY5V_D2
TUNER_SUB_ON
ALL_OFF
P3V_SCL1
P3V_SDA1
STBY3.3V
AR_IIC_CONT_D4
STB_SCL02_D4
STB_SDA02_D4
TXD_PC_D4
RXD_PC_D4
AR_IIC_INT_D2
DRVMUTE
READY
ALARM
INEXCH
PANEL_STBY_ON
R9823 100
R9824 100
R9825 100
R9826 100
R9827 100
R9828 100
R9831 10k
R9830 10k
FL9800 J0HABH000013
C9830 16V 10u
C9831 16V 10u
C9826 16V 0.1u
FL9807 J0HABH000013
P5V
C_SEL
AR_IIC_CONT_D4
STB3.3V
R9844 100
R9845 5.6k
C9825 50V 100p
FL9801 J0HABH000013
IIC_CLK1
IIC_DATA1
IIC_CONT
IIC_CLK2
IIC_DATA2
TXD
RXD
IIC/INT
R9842 100
R9843 100
R9838 100
R9839 100
R9840 22
D9802 MA2J72800L
D9804 MA3X152K0L
D9035 MA2J72800L
STB_SCL02
STB_SDA02
TXD_PC
RXD_PC
AR_IIC_INT
STBY3.3V_ON
AR_IIC_CONT
REMOCON
LED_R
LED_G
DCDC_ON
P15V
L9810 J0JHC0000045
C9880 50V 1000p
C9881 50V 1000p
PSTB
PBUSY
PDB0
PSLCT
PDB1
PSTB_2
PBUSY_2
PDB0_2
PSLCT_2
PDB1_2
TO DG-BOARD (DG3)
D3
SOS9_CONF
TO SC-BOARD (SC20)
D20
C9840 16V 0.1u
C9832 16V 10u
CL
CLK
SIU
SID
SCSU
CEL2
CPH
SOS6_SC1
SOS7_SC2
CEL
CBK
CSL
CSH
CML
CMH
SC_CL
SC_CLK
SC_SIU
SC_SID
SC_SCSU
SC_CEL2
SC_CPH
R9848 EXB2HV470JV
SC_CEL
SC_CBK
SC_CSL
SC_CSH
SC_CML
SC_CMH
R9849 EXB2HV470JV
R9850 47k
IC9802 C0JBAZ000856 LEVEL CONVERTER
IC9803 C0JBAZ000856 LEVEL CONVERTER
C9841 16V 1u
C9842 16V 1u
R9846 EXB2HV272JV
R9847 EXB2HV272JV
FP_CL
FP_CLK
FP_SIU
FP_SID
FP_SCSU
FP_CEL2
FP_CPH
FP_CEL
FP_CBK
FP_CSL
FP_CSH
FP_CML
FP_CMH
C9847 25V 0.1u
R9868 100k
Q9805 B1ABCF000138
P3.3V
D9808 MA3X152K0L
D9807 MA3X152K0L
R9871 10k
R9872 0
R9869 10k
R9870 10k
Q9806 B1ABCF000138
STB3.3V
R9202 4.7k
Q9100 B1ABCF000138
R9198 4.7k
R9201 4.7k
P_ON/OFF
REM_IN
REMOCON
DCDC_ON
A
B
C
D
E
F
1
2
3
4
5

TH-50PV60E, TH-50PX60B
D-Board (1 of 8) Schematic Diagram

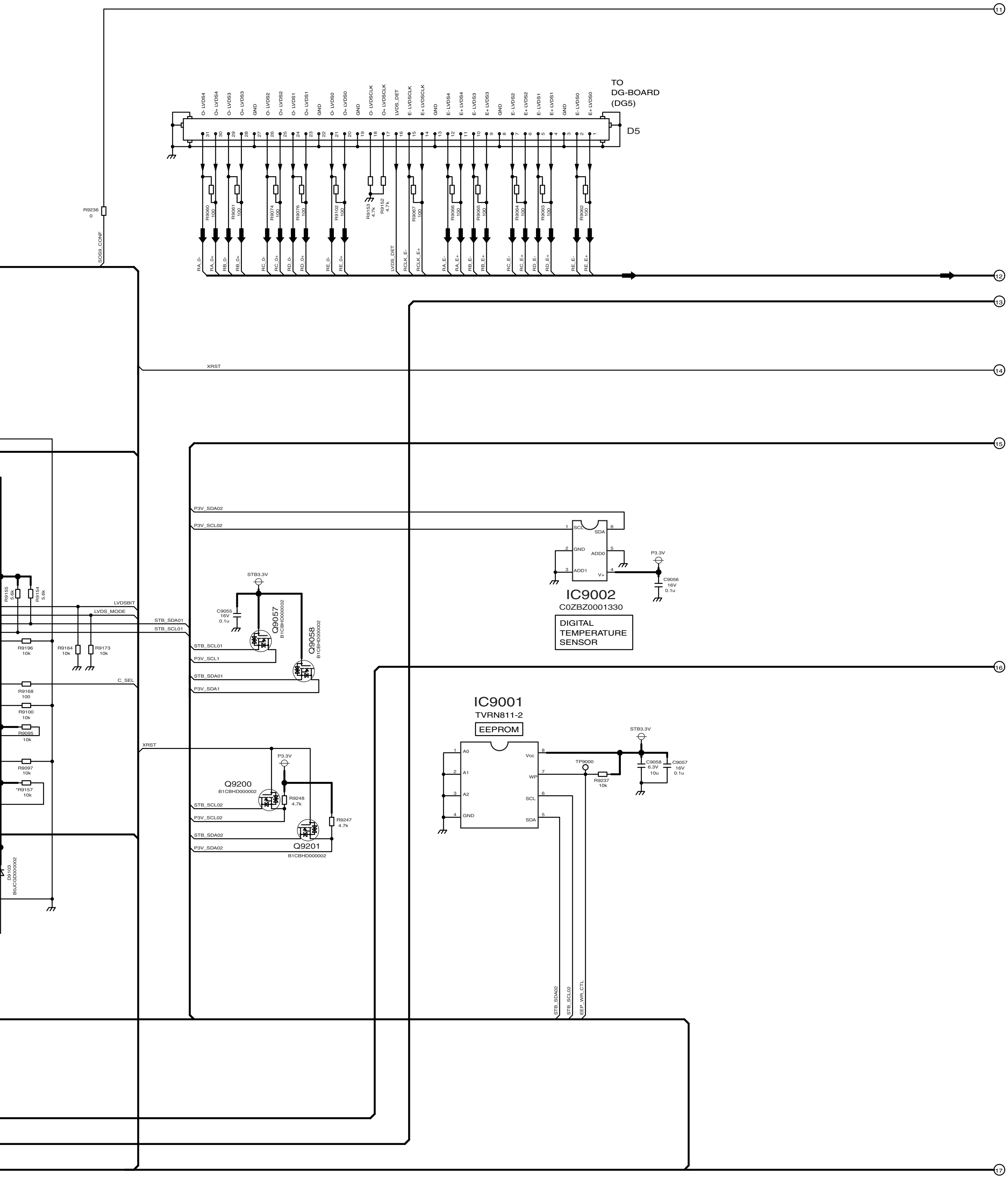

15V->1.2V
IC9800
C0DBAYY00054
DC-DC CONVERTER
15V → 1.2V
Q9800
B1MBEDA00015
D9801
B0JCDD000002
D9800
B0JCME000037
L9802
G1C2R2MA0241
P1.2V
LDO_5V
P15V
CTL
15V->2.5V
IC9809
C0DBAYY00054
DC-DC CONVERTER
15V → 2.5V
Q9801
B1MBEDA00015
D9815
B0JCDD000002
D9814
B0JCME000037
L9801
G1C2R2MA0241
P2.5V
FB=0.7V
IC9807
C0DBAYY00054
DC-DC CONVERTER
15V → 3.3V
Q9803
B1MBEDA00015
D9813
B0JCDD000002
D9812
B0JCME000037
L9800
G1C3R0MA0248
P3.3V
15V->5V
IC9806
C0DBAHD00011
AVR 5V
2.5V->1.5V
IC9801
C0DBZFG00066
AVR 1.5V
P2.5V
P1.5V
+2.5V
FOR
FACTORY
USE
D6
STB3.3V
STB5V_M
P15V
Q9806
B1ABCF000138
R9859
EXB38V101JV
R9854
100
IC9007
TVRN814-1
PROM(FPGA)
NCS
DATA
VCC
GND
DCLK
ASDI
NCS
DATA0
PSTB
PBUSY
PDB0
PSLCT
PDB1
ASDIO
DCLK
REMOCON
DCDC_ON
P3V_SDA1
P3V_SCL1
AR_IIC_CONT_D4
LED_R
LED_G
PSTB_2
PBUSY_2
PDB0_2
PSLCT_2
PDB1_2
AR_IIC_INT_D2
RXD_PC_D4
TXD_PC_D4
STB_SDM02_D4
STB_SCL02_D4
1
2
3

TH-50PV60E, TH-50PX60B
D-Board (1 of 8) Schematic Diagram

14.37. D-Board (2 of 8) Schematic Diagram



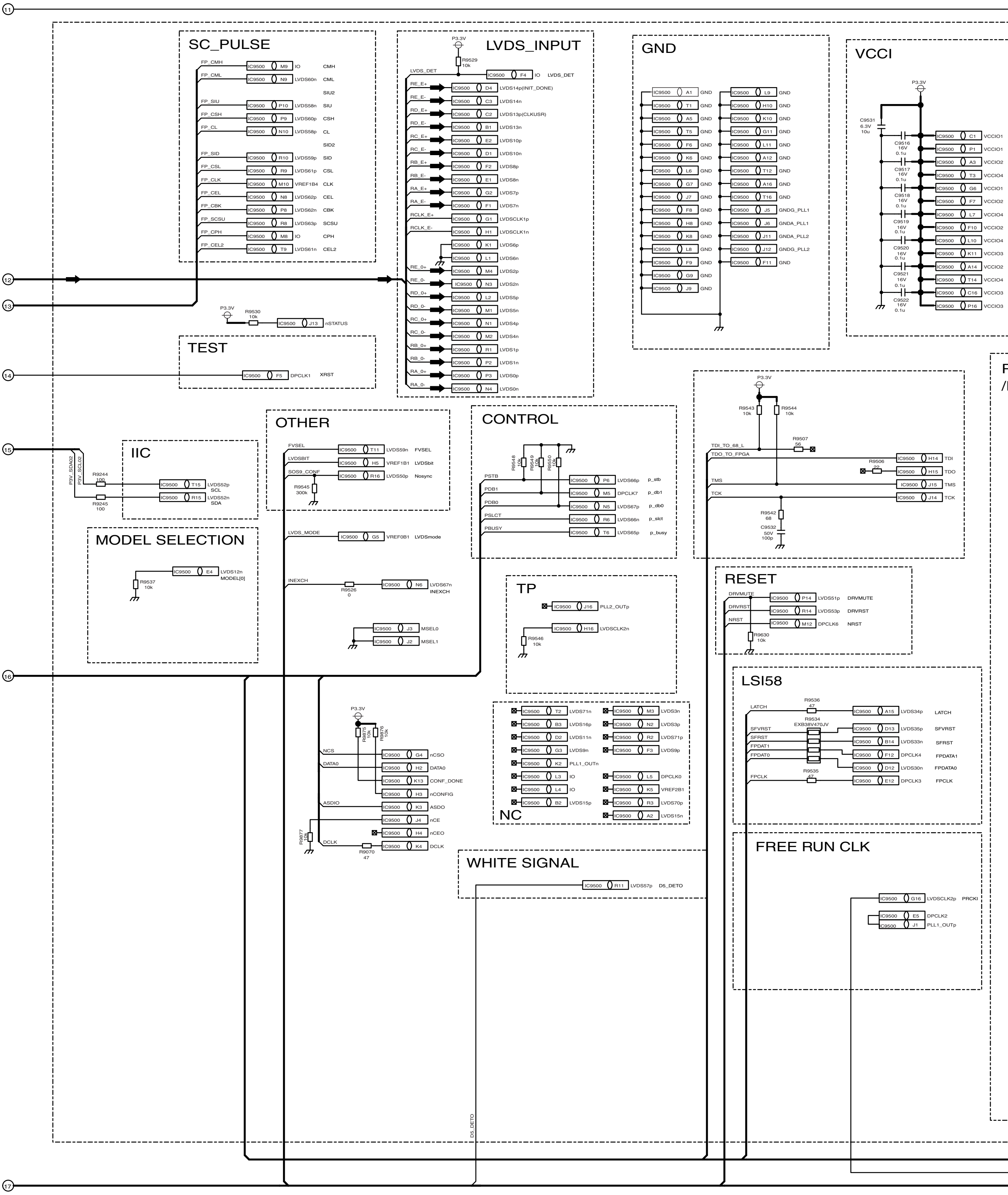
D-BOARD TZTNP01BETB (2/8)
STB3.3V ON/OFF
IC9011
C0EBF0000431
STB 3.3V RESET
VDD
VOUT
GND
Cd
CE
RESET
STB5V_M
D9110
B0JCGD000002
STB5V
R9140 0
R9127 10k
C9033 16V 0.1u
C9036 6.3V 10u
C9034 16V 0.1u
C9035 6.3V 10u
C9037 50V 0.01u
R9129 68k
R9134 33k
R9141 100
Q9044
B1ABCF000138
Q9046
B1ABCF000138
STB3.3V
R9121 100k
Q9052
B1ABCF000138
Q9051
B1ABCF000138
Q9054
B1ABCF000138
Q9053
B1ABCF000138
P15V
P3.3V
P5V
R9218 10k
R9217 10k
R9215 12k
R9219 10k
R9207 1k
D9020
MA2J72800L
R9203 1k
R9221 10k
R9220 10k
R9205 4.7k
R9222 10k
R9206 1k
R9236 0
PANEL_STBY_ON
SOS9_CONF
SOS7_SC2
SOS4_PS
SOS8_SS
VDATA_DET
SOS6_SC1
R9110 100
C9051 16V 0.1u
R9172 39k
D9019
MAZ303300L
R9142 100
R9120 100
R9143 100
R9144 100
C9049 16V 0.1u
R9170 39k
D9018
MAZ303300L
C9050 16V 0.1u
R9171 39k
D9017
MAZ303300L
C9046 16V 0.1u
R9149 4.7k
R9204 4.7k
C9053 16V 0.1u
C9052 16V 0.1u
C9040 16V 0.1u
C9047 16V 0.1u
ALARM
LED_G
LED_R
R9159 10k
R9160 0
R9161 0
R9108 10k
R9109 10k
STB3.3V
C9039 6.3V 10u
XRST2
READY
*R9210 2.7k
*R9209 10
Q9049
B1ADCE000011
R9158 10k
R9179 1k
R9178 10k
R9180 10k
X9000
H2D200500011
R9194 0
AR_IIC_INT
AR_IIC_CONT
C9044 16V 0.1u
R9101 10k
R9165 10k
R9177 22k
R9175 10k
R9156 10k
R9107 3.3k
R9166 10k
*R9199 2.7k
REM_IN
FVSEL
INEXCH
PANASONIC_MODE
DRVRST
IC9003
TVRN805-1
MICOM
NC
READY
CNVSS
CE(Loader)
RESET
XOUT
VSS
XIN
VCC
IIC_INT
IIC_CONT
REM_IN
FVSEL
VREF
AVSS
AVCC
SOS2_15V
SOS3_3V
SOS5_5V
LED_GRN
LED_RED
INT_CONF
LVDS_BIT
LVDS_MODE
IIC1_SDA
IIC1_SCL
SOS_INH
M_SEL4
M_SEL3
M_SEL2
M_SEL1
PLL_RST
INEXCH
PANASONIC MODE
DRIVER_RESET
XRST
LSI_RST
P_ON/OFF
SCLK(FPGA)
SIN(FPGA)
SOUT(FPGA)
FPGA_CE
PANEL_MAIN_ON
EEP_WR_CTL
IIC2_SCL
IIC2_SDA
TXD(Loader)
RXD(Loader)
SCLK(for Loader)
BUSY(for Loader)
AC_GOOD
SOS9_CONF
NC(ALL_OFF)
R9151 22
R9150 22
R9196 10k
R9164 10k
R9168 100
R9100 10k
R9095 10k
R9097 10k
*R9157 10k
R9155 5.6k
R9154 5.6k
LVDS
P3.3V
R9189 10k
R9192 0
Q9050
B1ABCF000138
R9190 10k
R9193 10k
R9113 10
R9145 100
R9169 10k
R9106 10k
R9111 22k
R9167 100
R9148 10k
NRST
XRST
P_ON/OFF
PANEL_MAIN_ON
D5_DETO
SOS9_CONF
C9048 16V 0.1u
C9045 16V 0.1u
D9105 B0JCGD000002
D9106 B0JCGD000002
R9174 10k
D9100 B0JCGD000002
D9101 B0JCGD000002
D9102 B0JCGD000002
D9103 B0JCGD000002
R9185 22
R9186 22
R9187 5.6k
R9188 5.6k
R9181 1k
R9182 1k
R9183 1k
R9184 1k
EEP_WR_CTL
STB_SCL02
STB_SDA02
TXD_PC
RXD_PC
STBY3.3V_ON
XRST2
XRST
NC
ASND
DAND
DCND
1
2
3


TO
DG-BOARD
(DG5)
D5
O- LVDS4
O+ LVDS4
O- LVDS3
O+ LVDS3
GND
O- LVDS2
O+ LVDS2
O- LVDS1
O+ LVDS1
GND
O- LVDS0
O+ LVDS0
GND
O- LVDSCLK
O+ LVDSCLK
LVDS_DET
E- LVDSCLK
E+ LVDSCLK
GND
E- LVDS4
E+ LVDS4
E- LVDS3
E+ LVDS3
GND
E- LVDS2
E+ LVDS2
E- LVDS1
E+ LVDS1
GND
E- LVDS0
E+ LVDS0
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
R9060 100
R9061 100
R9074 100
R9076 100
R9102 100
R9153 4.7k
R9152 4.7k
R9067 100
R9066 100
R9065 100
R9064 100
R9063 100
R9062 100
RA_0-
RA_0+
RB_0-
RB_0+
RC_0-
RC_0+
RD_0-
RD_0+
RE_0-
RE_0+
LVDS_DET
RCLK_E-
RCLK_E+
RA_E-
RA_E+
RB_E-
RB_E+
RC_E-
RC_E+
RD_E-
RD_E+
RE_E-
RE_E+
R9236 0
SOS9_CONF
⑪
⑫
⑬
XRST
⑭
⑮
P3V_SDA02
P3V_SCL02
IC9002
C0ZBZ0001330
DIGITAL TEMPERATURE SENSOR
SCL
SDA
GND
ADD0
ADD1
V+
P3.3V
C9056 16V 0.1u
R9155 5.6k
R9154 5.6k
LVDSBIT
LVDS_MODE
STB_SDA01
STB_SCL01
R9196 10k
R9164 10k
R9173 10k
STB3.3V
C9055 16V 0.1u
Q9057
B1CBHD000002
Q9058
B1CBHD000002
STB_SCL01
P3V_SCL1
STB_SDA01
P3V_SDA1
C_SEL
R9168 100
R9100 10k
R9095 10k
R9097 10k
*R9157 10k
⑯
IC9001
TVRN811-2
EEPROM
A0
A1
A2
GND
Vcc
WP
SCL
SDA
STB3.3V
TP9000
R9237 10k
C9058 6.3V 10u
C9057 16V 0.1u
XRST
P3.3V
Q9200
B1CBHD000002
R9248 4.7k
R9247 4.7k
STB_SCL02
P3V_SCL02
STB_SDA02
P3V_SDA02
Q9201
B1CBHD000002
D9103
B0JCGD000002
STB_SDA02
STB_SCL02
EEP_WR_CTL
⑰

TH-50PV60E, TH-50PX60B
D-Board (2 of 8) Schematic Diagram

14 15 16 17 18

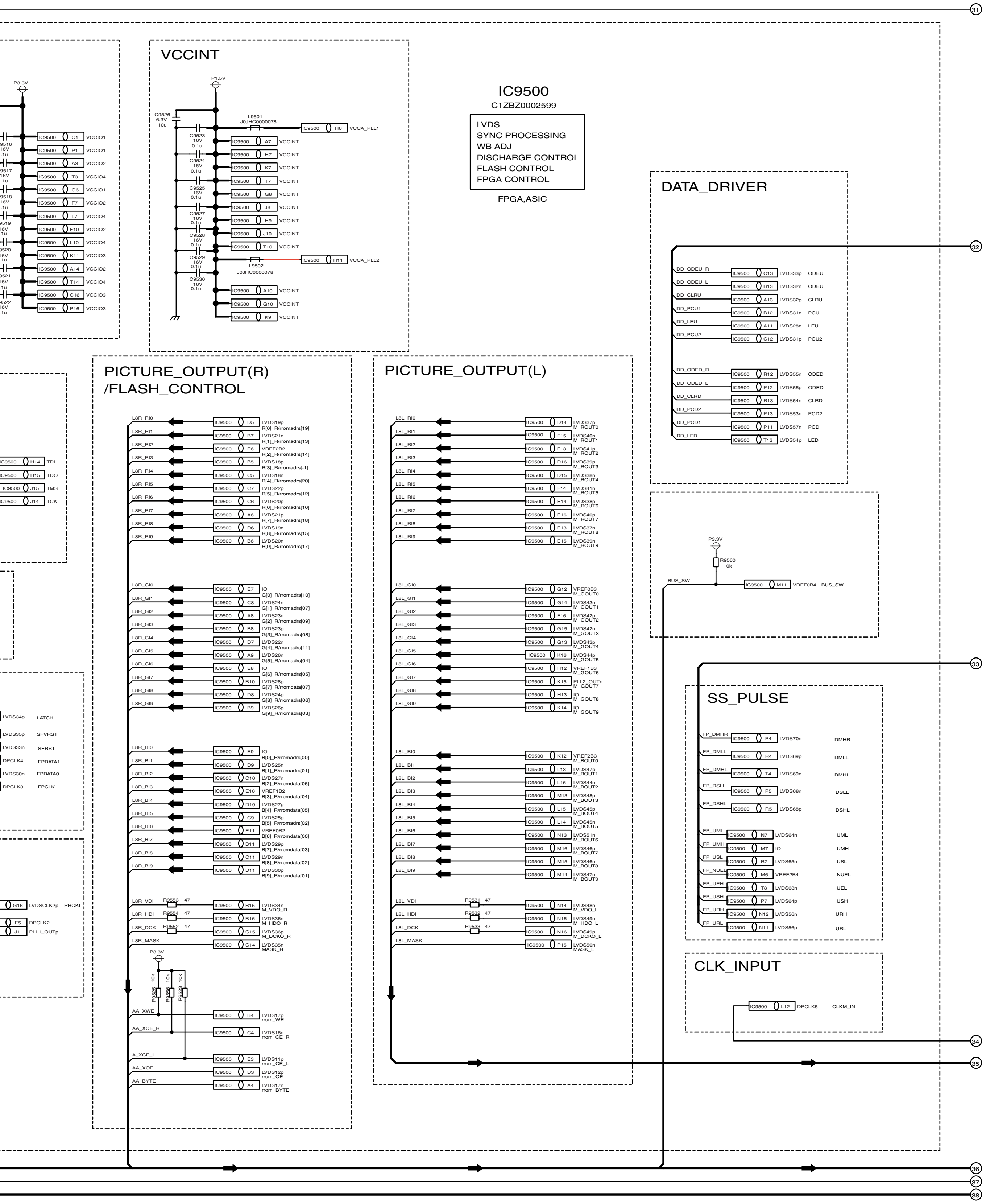
14.38. D-Board (3 of 8) Schematic Diagram


SC_PULSE
LVDS_INPUT
GND
VCCI
TEST
OTHER
CONTROL
IIC
MODEL SELECTION
TP
RESET
LSI58
NC
FREE RUN CLK
WHITE SIGNAL
IC9500
P3.3V
R9529 10k
LVDS_DET
R9530 10k
nSTATUS
DPCLK1
XRST
R9244 100
R9245 100
SCL
SDA
R9537 10k
MODEL[0]
R9545 300k
R9526 0
INEXCH
MSEL0
MSEL1
nCSO
DATA0
CONF_DONE
nCONFIG
ASDO
nCE
nCEO
DCLK
R9070 47
R9677 10k
PLL2_OUTp
R9546 10k
R9543 10k
R9544 10k
R9507 56
R9506 22
TDI
TDO
TMS
TCK
R9542 68
C9532 50V 100p
DRVMUTE
DRVRST
NRST
R9630 10k
R9536 47
R9534 EXB38V470JV
R9535 47
LATCH
SFVRST
SFRST
FPDATA1
FPDATA0
FPCLK
PRCKI
PLL1_OUTp
D5_DETO
C9531 6.3V 10u
11
12
13
14
15
16
17

⚠ D-BOARD TZTNP01BETB (3/8)

TH-50PV60E, TH-50PX60B
D-Board (3 of 8) Schematic Diagram

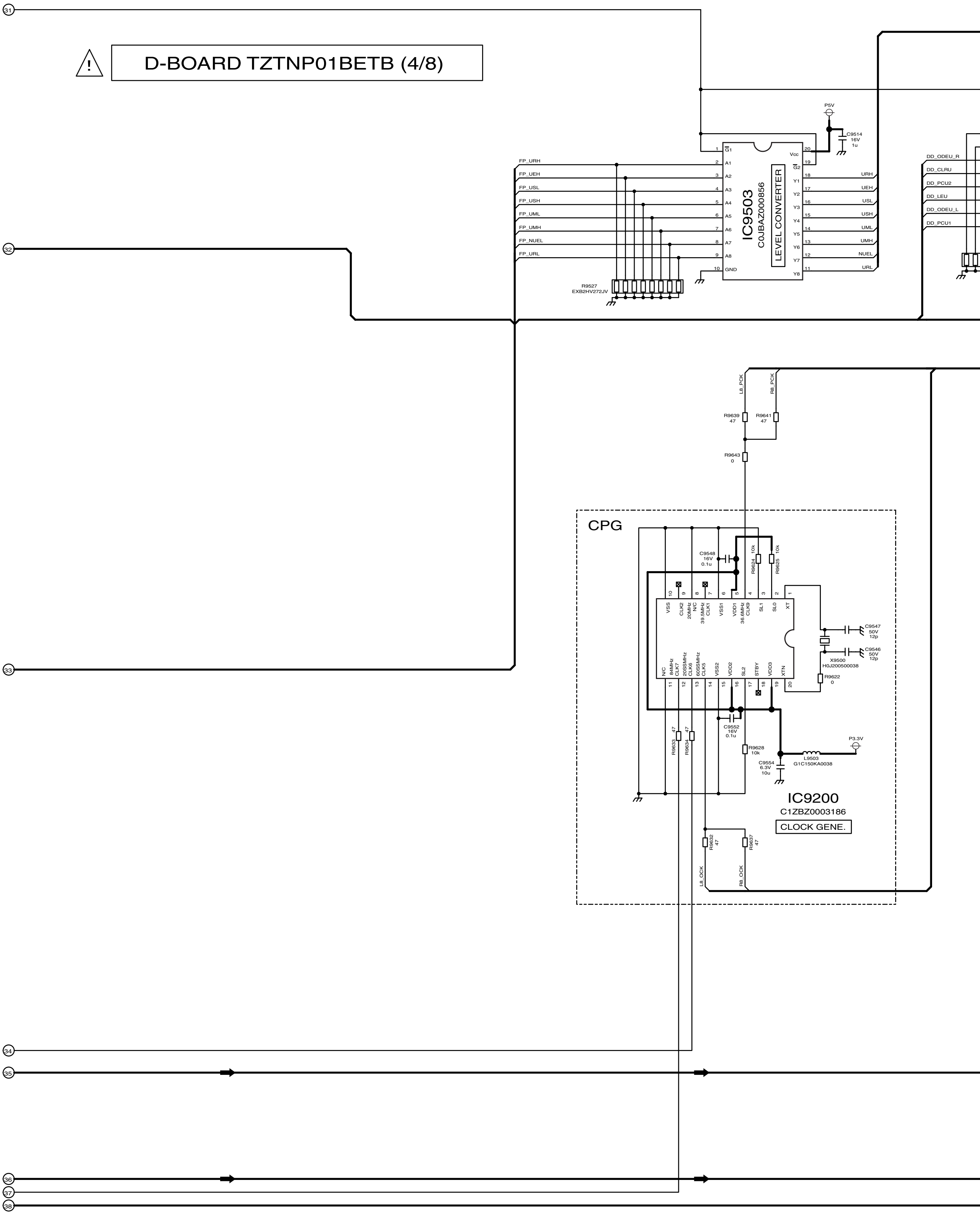
19 20 21 22 23


VCCINT
IC9500
C1ZBZ0002599
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
FPGA,ASIC
DATA_DRIVER
PICTURE_OUTPUT(R)
/FLASH_CONTROL
PICTURE_OUTPUT(L)
SS_PULSE
CLK_INPUT
P3.3V
P1.5V
L9501
J0JHC0000078
L9502
J0JHC0000078
VCCA_PLL1
VCCA_PLL2
VCCINT
BUS_SW
R9560
10k
31
32
33
34
35
36
37
38

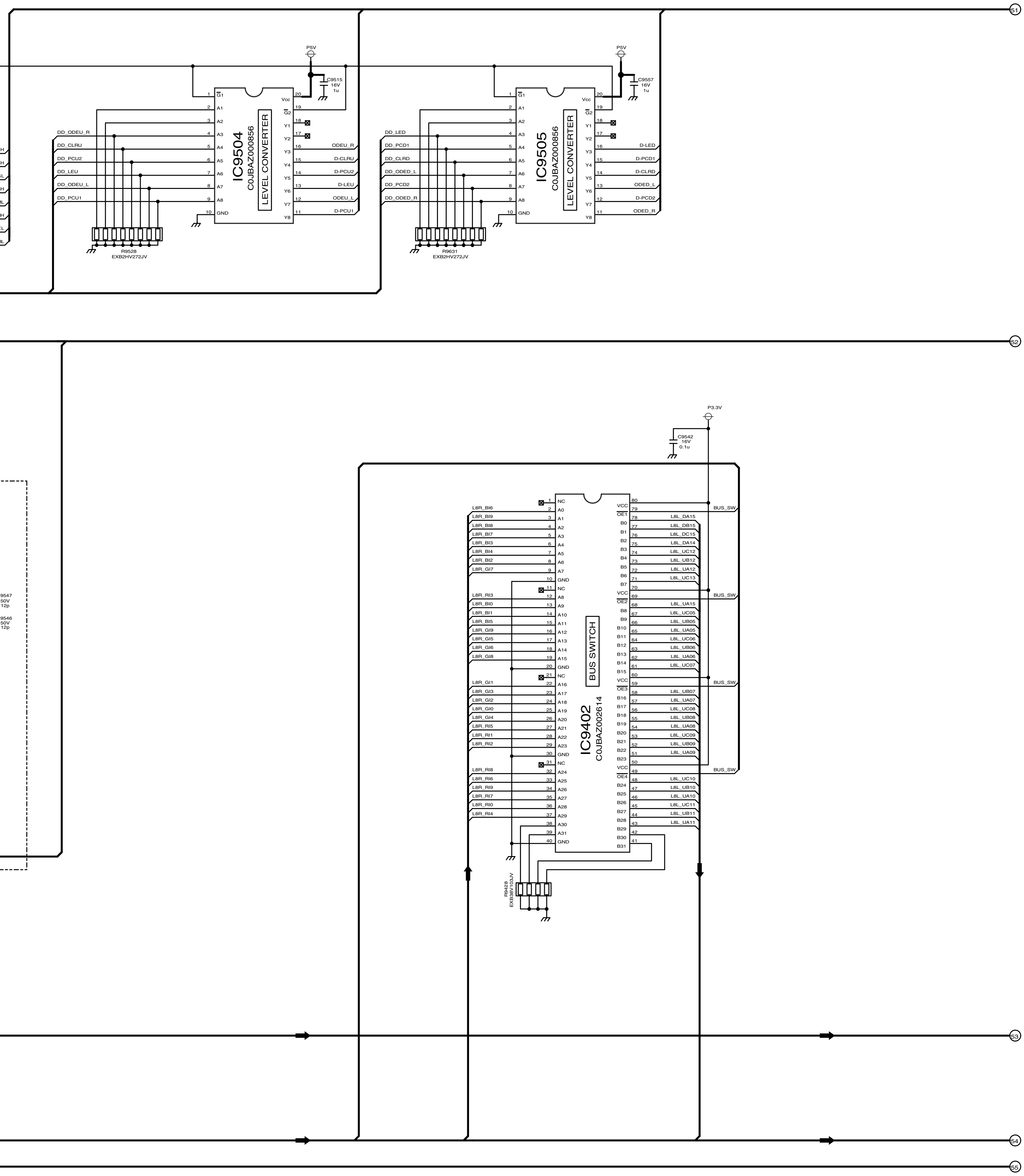
TH-50PV60E, TH-50PX60B
D-Board (3 of 8) Schematic Diagram

23 24 25 26 27

14.39. D-Board (4 of 8) Schematic Diagram

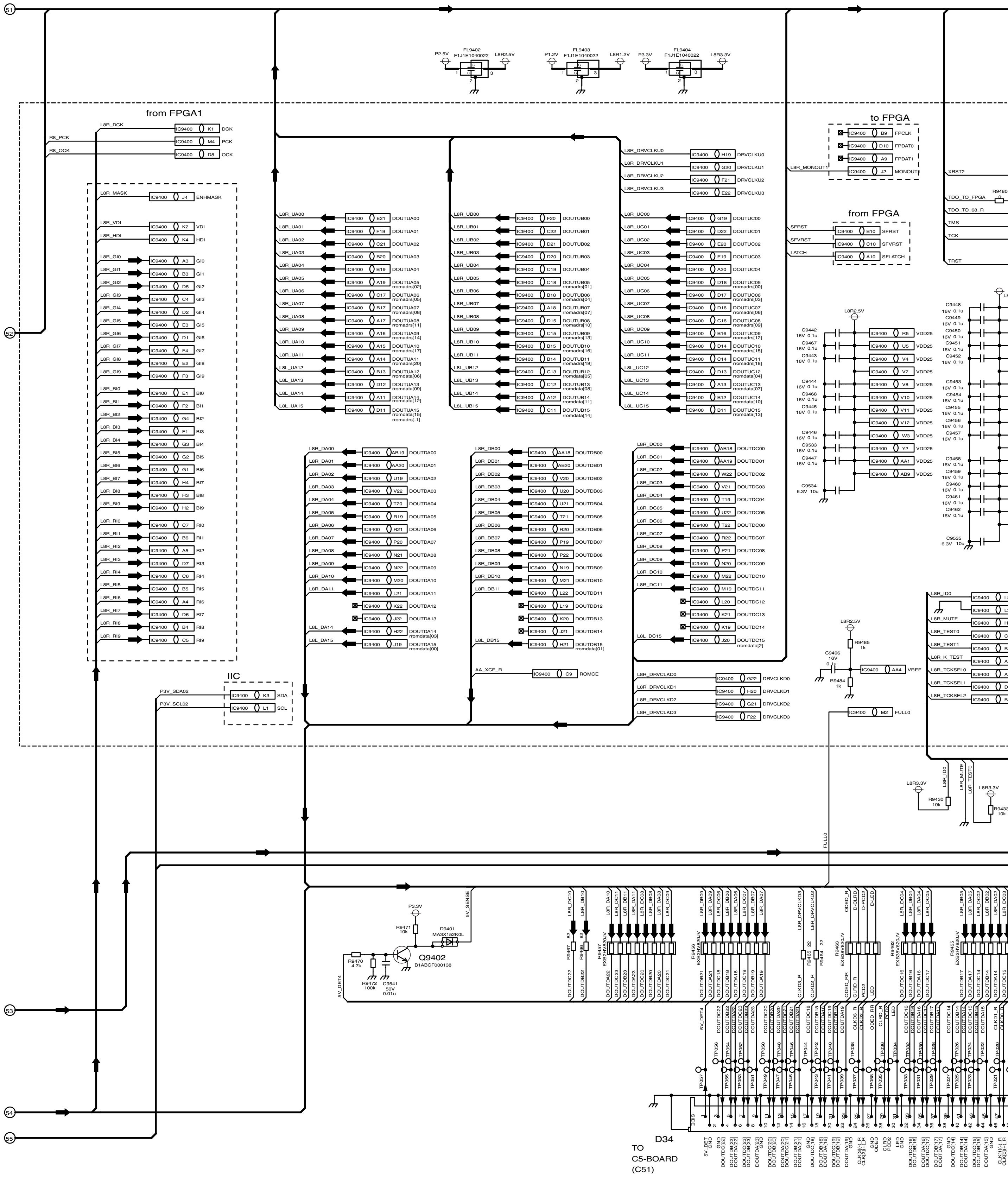

31
D-BOARD TZTNP01BETB (4/8)
32
33
34
35
36
37
38
P5V
C9514
16V
1u
IC9503
C0JBAZ000856
LEVEL CONVERTER
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
FP_URH
FP_UEH
FP_USL
FP_USH
FP_UML
FP_UMH
FP_NUEL
FP_URL
URH
UEH
USL
USH
UML
UMH
NUEL
URL
R9527
EXB2HV272JV
DD_ODEU_R
DD_CLRU
DD_PCU2
DD_LEU
DD_ODEU_L
DD_PCU1
L8_PCK
R8_PCK
R9639
47
R9641
47
R9643
0
CPG
C9548
16V
0.1u
R9624
10k
R9625
10k
VSS
CLK2
20MHz
N/C
39.5MHz
CLK1
VSS1
VDD1
36.6MHz
CLK9
SL1
SL0
XT
N/C
84MHz
CLK7
20SSMHz
CLK6
60SSMHz
CLK5
VSS2
VDD2
SL2
STBY
VDD3
XTN
C9547
50V
12p
C9546
50V
12p
X9500
H0J200500038
R9622
0
C9552
16V
0.1u
R9628
10k
R9633
47
R9634
47
C9554
6.3V
10u
L9503
G1C150KA0038
P3.3V
IC9200
C1ZBZ0003186
CLOCK GENE.
R9632
47
R9637
47
L8_OCK
R8_OCK

TH-50PV60E, TH-50PX60B
D-Board (4 of 8) Schematic Diagram

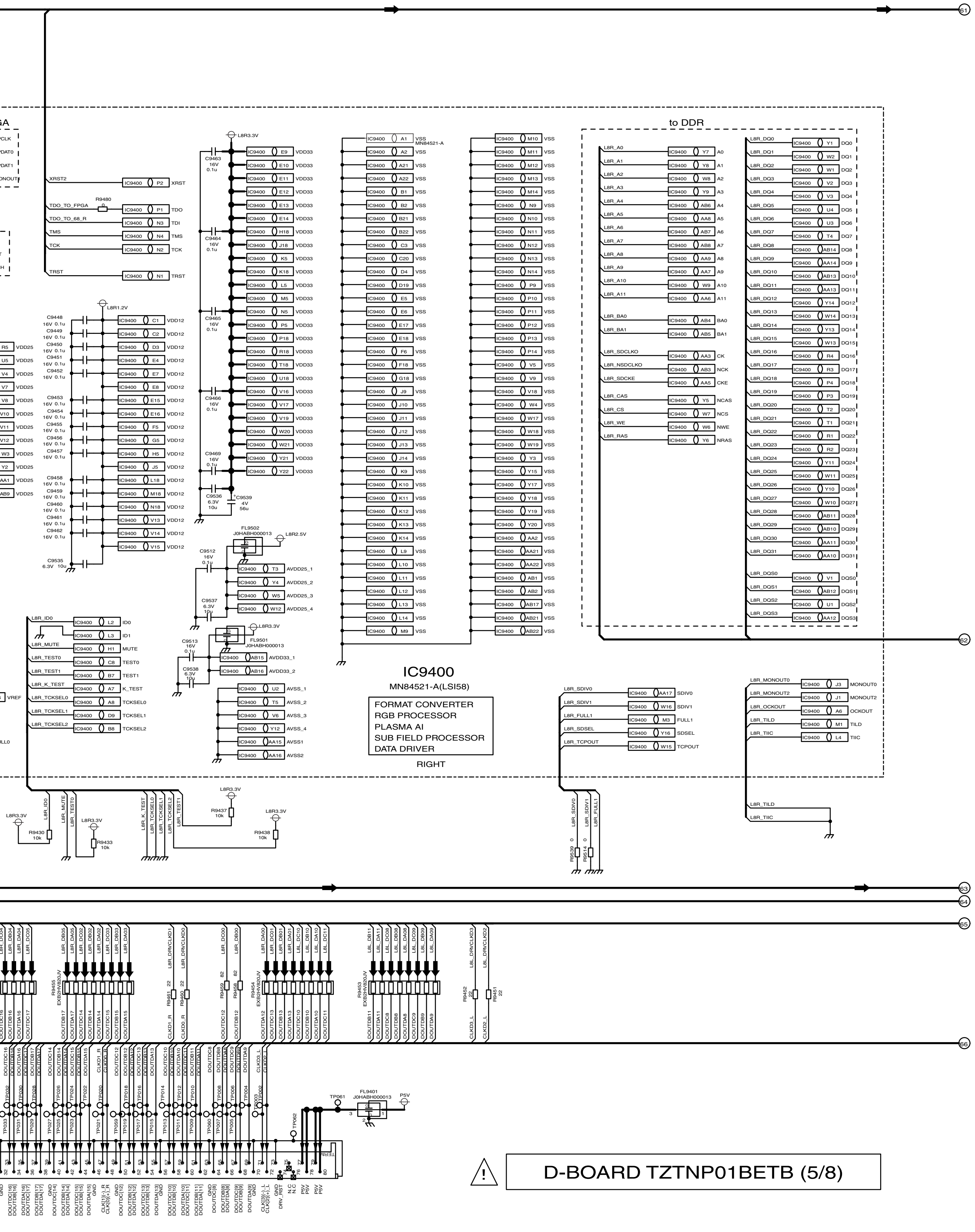

IC9504
C0JBAZ000856
LEVEL CONVERTER
P5V
C9515 16V 1u
DD_ODEU_R
DD_CLRU
DD_PCU2
DD_LEU
DD_ODEU_L
DD_PCU1
ODEU_R
D-CLRU
D-PCU2
D-LEU
ODEU_L
D-PCU1
R9528
EXB2HV272JV
IC9505
C0JBAZ000856
LEVEL CONVERTER
C9557 16V 1u
DD_LED
DD_PCD1
DD_CLRD
DD_ODED_L
DD_PCD2
DD_ODED_R
D-LED
D-PCD1
D-CLRD
ODED_L
D-PCD2
ODED_R
R9631
EXB2HV272JV
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
P3.3V
C9542 16V 0.1u
IC9402
C0JBAZ002614
BUS SWITCH
L8R_BI6
L8R_BI9
L8R_BI8
L8R_BI7
L8R_BI3
L8R_BI4
L8R_BI2
L8R_GI7
L8R_RI3
L8R_BI0
L8R_BI1
L8R_BI5
L8R_GI9
L8R_GI5
L8R_GI6
L8R_GI8
L8R_GI1
L8R_GI3
L8R_GI2
L8R_GI0
L8R_GI4
L8R_RI5
L8R_RI1
L8R_RI2
L8R_RI8
L8R_RI6
L8R_RI9
L8R_RI7
L8R_RI0
L8R_RI4
BUS_SW
L8L_DA15
L8L_DB15
L8L_DC15
L8L_DA14
L8L_UC12
L8L_UB12
L8L_UA12
L8L_UC13
L8L_UA15
L8L_UC05
L8L_UB05
L8L_UA05
L8L_UC06
L8L_UB06
L8L_UA06
L8L_UC07
L8L_UB07
L8L_UA07
L8L_UC08
L8L_UB08
L8L_UA08
L8L_UC09
L8L_UB09
L8L_UA09
L8L_UC10
L8L_UB10
L8L_UA10
L8L_UC11
L8L_UB11
L8L_UA11
R9428
EXB38V103JV
C9547 50V 12p
C9546 50V 12p
51
52
53
54
55
32
33
34
35
36

TH-50PV60E, TH-50PX60B
D-Board (4 of 8) Schematic Diagram

14.40. D-Board (5 of 8) Schematic Diagram


from FPGA1
IIC
to FPGA
from FPGA
D34
TO
C5-BOARD
(C51)
Q9402
FL9402
FL9403
FL9404

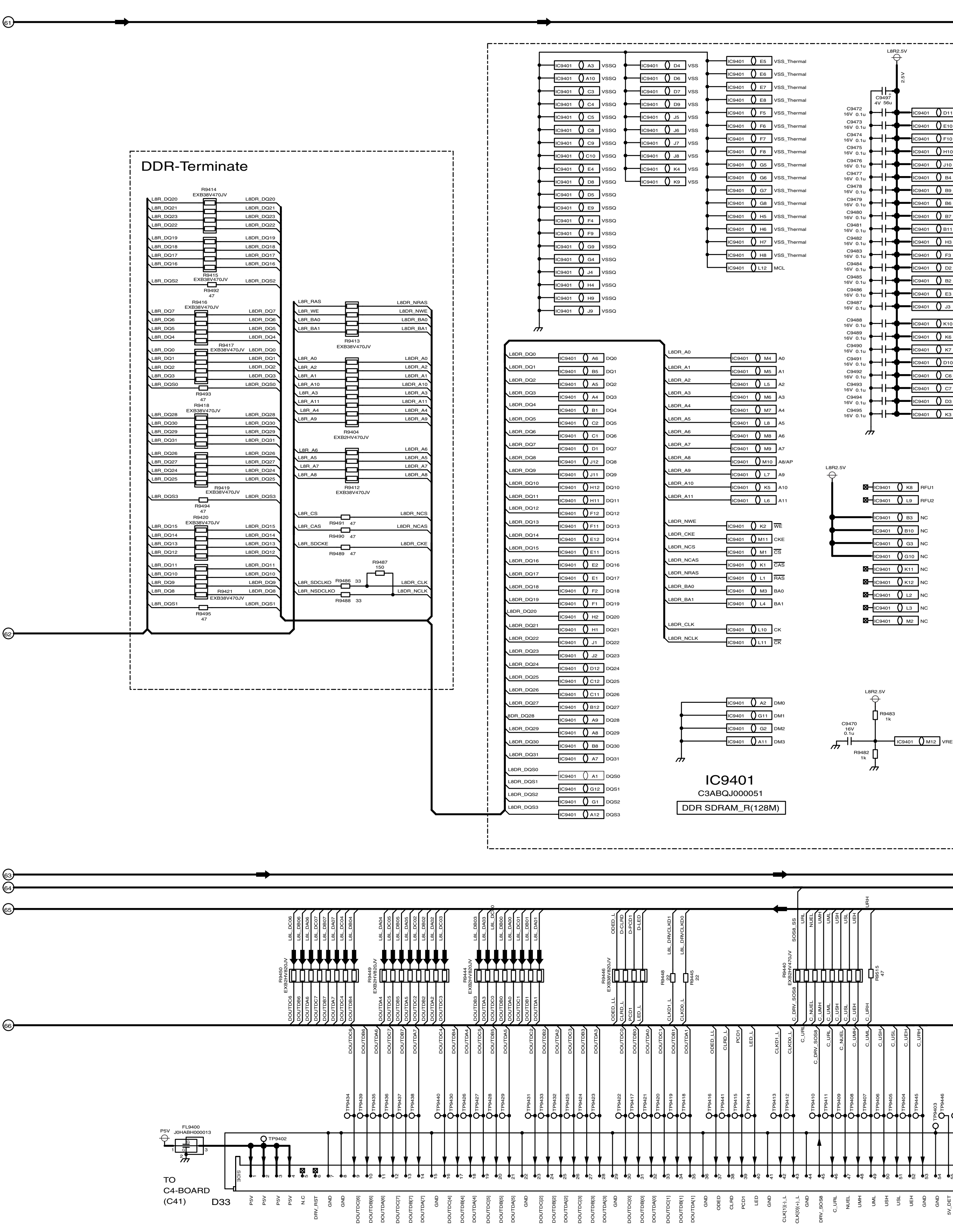
TH-50PV60E, TH-50PX60B
D-Board (5 of 8) Schematic Diagram


IC9400
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
RIGHT
to DDR
L8R3.3V
L8R1.2V
L8R2.5V
FL9502
J0HABH000013
FL9501
J0HABH000013
FL9401
J0HABH000013
P5V
TDO_TO_FPGA
TDO_TO_68_R
XRST2
TMS
TCK
TRST
R9480
R9430 10k
R9433 10k
R9437 10k
R9438 10k
R9455 EXB2HV820JV
R9454 EXB2HV820JV
R9453 EXB2HV820JV
D-BOARD TZTNP01BETB (5/8)

TH-50PV60E, TH-50PX60B
D-Board (5 of 8) Schematic Diagram

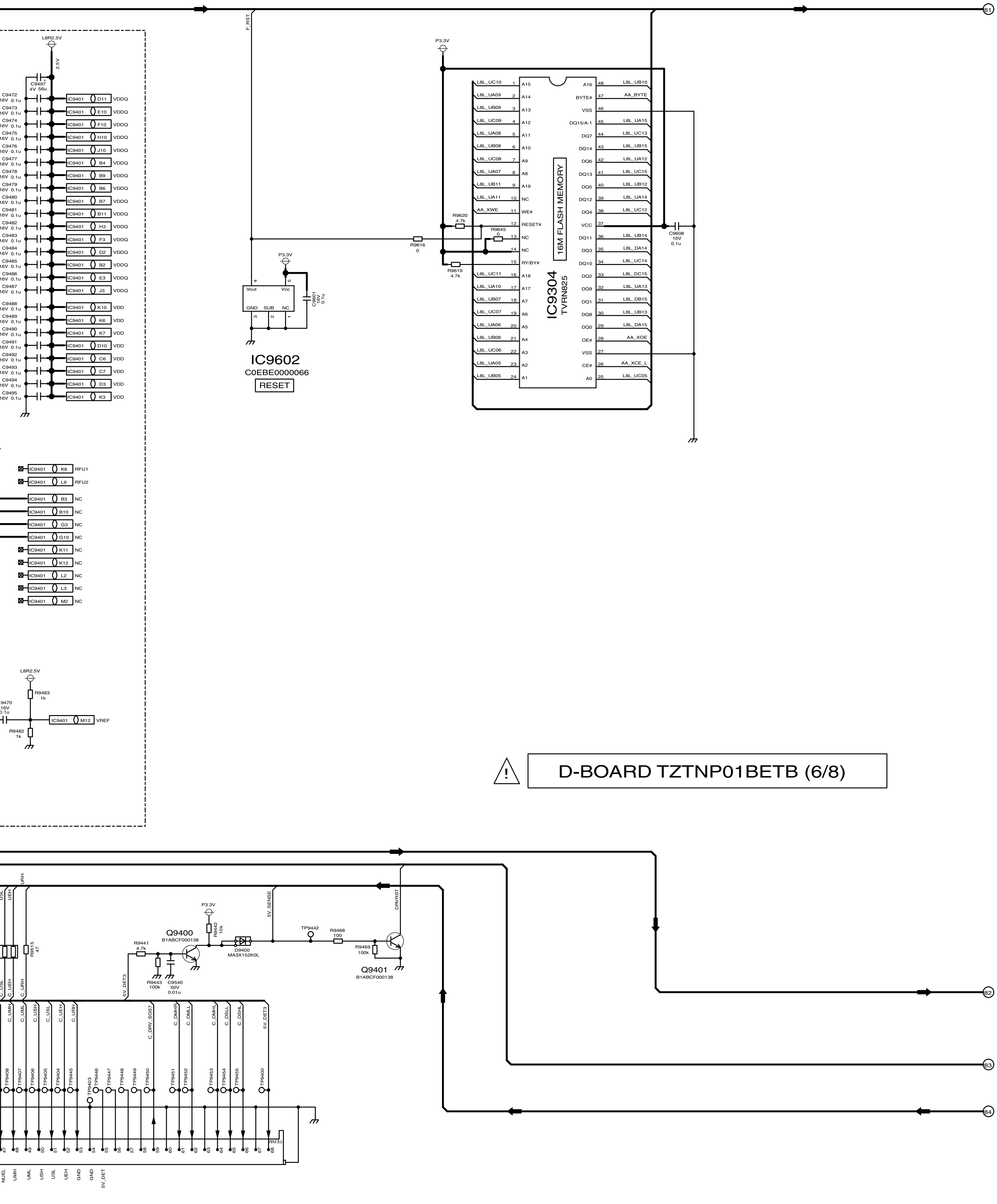
41 42 43 44 45

14.41. D-Board (6 of 8) Schematic Diagram


61
62
63
64
65
66
DDR-Terminate
R9414 EXB38V470JV
R9415 EXB38V470JV
R9416 EXB38V470JV
R9417 EXB38V470JV
R9418 EXB38V470JV
R9419 EXB38V470JV
R9420 EXB38V470JV
R9421 EXB38V470JV
R9413 EXB38V470JV
R9404 EXB2HV470JV
R9412 EXB38V470JV
R9487 150
L8R_CLK
L8DR_CLK
L8DR_NCLK
IC9401
C3ABQJ000051
DDR SDRAM_R(128M)
L8R2.5V
VSSQ
VSS
VSS_Thermal
MCL
RFU1
RFU2
NC
VREF
R9483 1k
R9482 1k
C9470 16V 0.1u
C9497 4V 56u
R9450 EXB2HV820JV
R9449 EXB2HV820JV
R9444 EXB2HV820JV
R9446 EXB38V820JV
R9440 EXB2HV470JV
R9448 22
R9445 22
R9515 47
FL9400 J0HABH000013
P5V
TP9402
TO
C4-BOARD
(C41)
D33

TH-50PV60E, TH-50PX60B
D-Board (6 of 8) Schematic Diagram

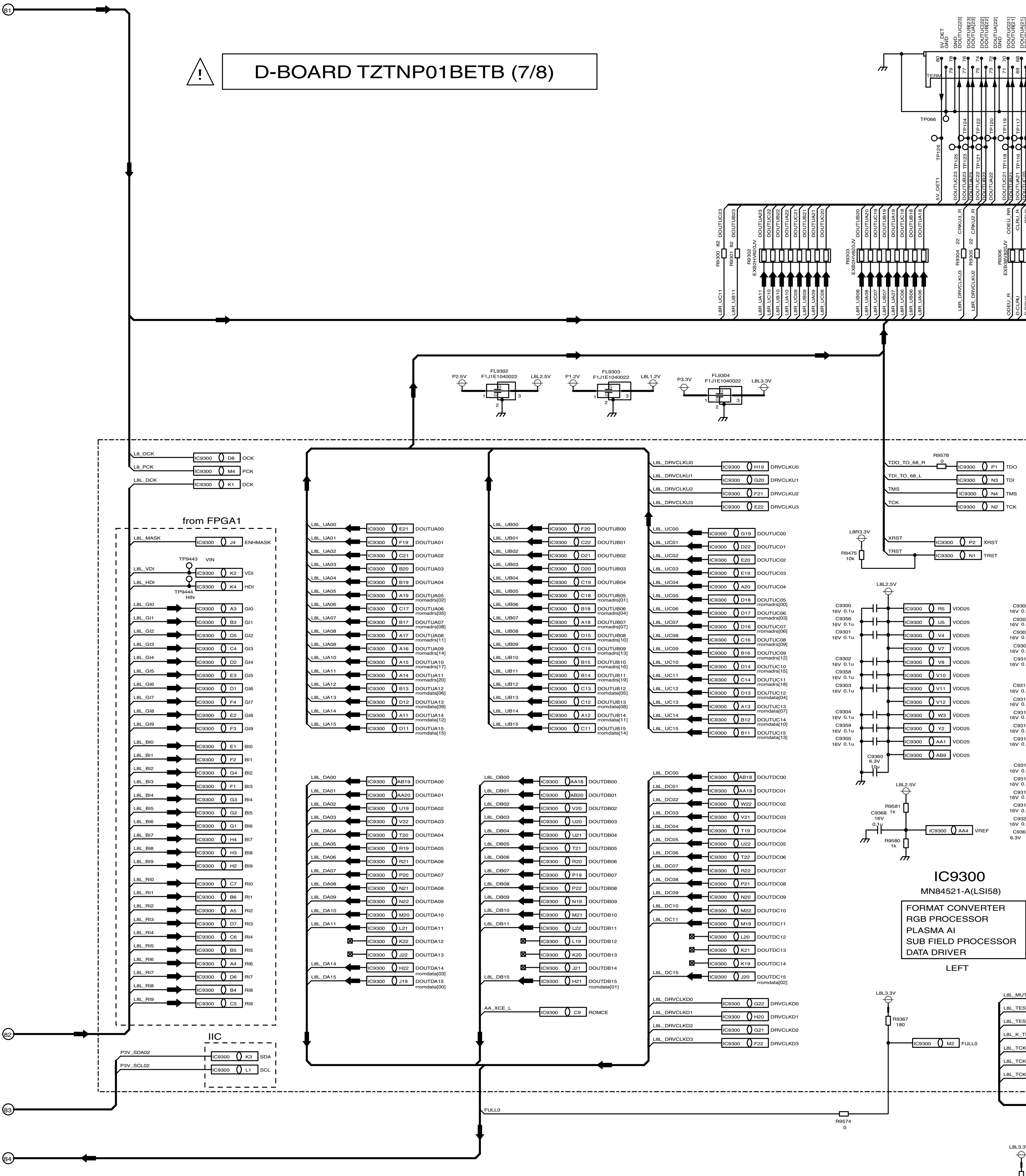
46 47 48 49 50


F_RST
L8R2.5V
2.5V
C9497 4V 56u
P3.3V
IC9304
TVRN825
16M FLASH MEMORY
IC9602
C0EBE0000066
RESET
Vout
Vcc
GND
SUB
NC
C9601 16V 0.1u
R9616 0
R9620 4.7k
R9645 0
R9619 4.7k
C9608 16V 0.1u
A15
A14
A13
A12
A11
A10
A9
A8
A19
NC
WE#
RESET#
RY/BY#
A18
A17
A7
A6
A5
A4
A3
A2
A1
A16
BYTE#
VSS
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VCC
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE#
CE#
A0
AA_XWE
AA_BYTE
AA_XOE
AA_XCE_L
IC9401
VDDQ
VDD
RFU1
RFU2
NC
VREF
R9483 1k
R9482 1k
Q9400
B1ABCF000138
Q9401
B1ABCF000138
R9441 4.7k
R9442 10k
R9443 100k
C9540 50V 0.01u
D9400
MA3X152K0L
TP9442
R9468 100
R9469 100k
R9515 47
5V_SENSE
DRVRST
5V_DET3
C_DRV_SOS7
5V_DET
TERM
81
82
83
84
D-BOARD TZTNP01BETB (6/8)

TH-50PV60E, TH-50PX60B
D-Board (6 of 8) Schematic Diagram

50	51	52	53	54

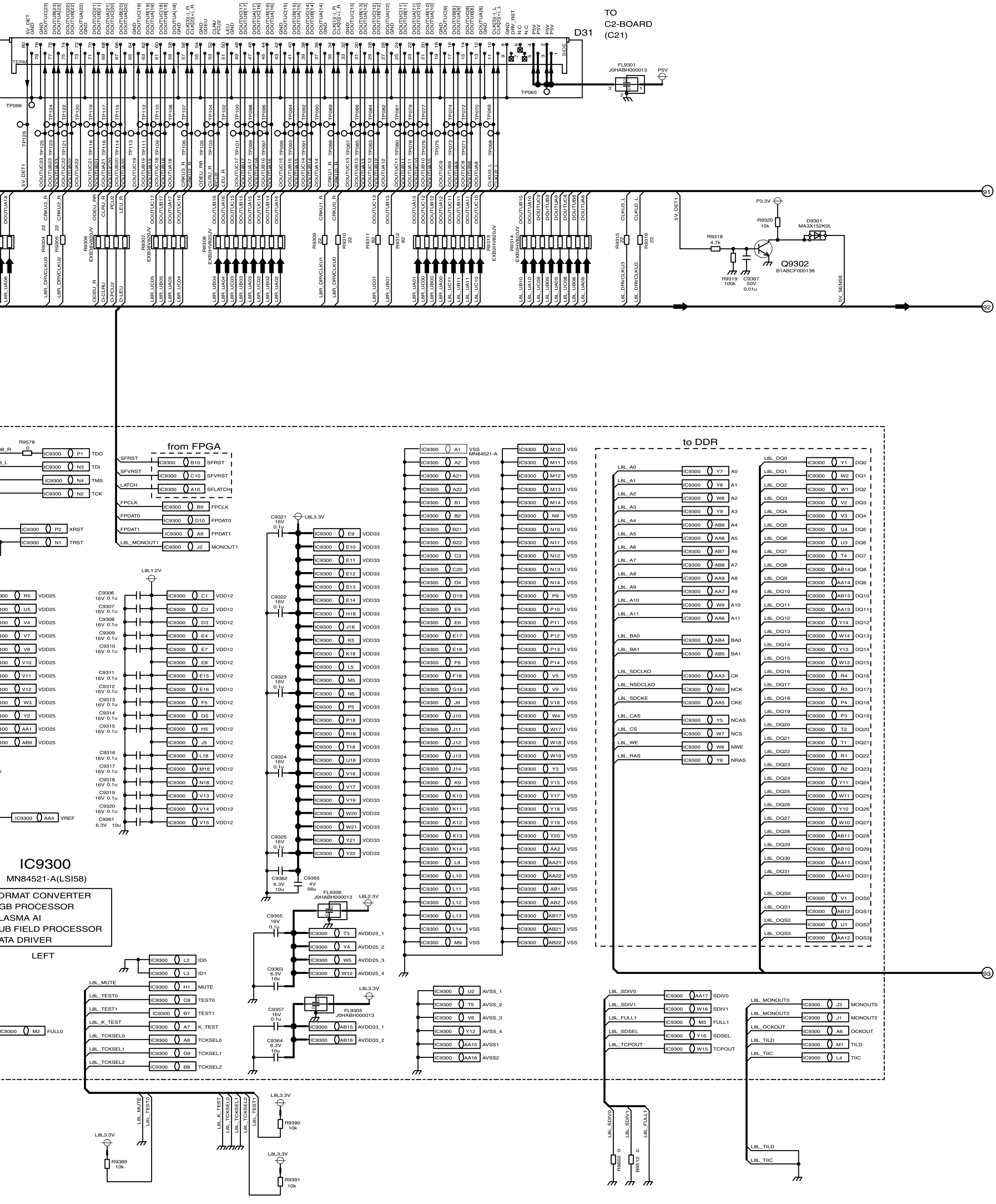
14.42. D-Board (7 of 8) Schematic Diagram



81
82
83
84
D-BOARD TZTNP01BETB (7/8)
from FPGA1
IIC
FL9302 F1J1E1040022
FL9303 F1J1E1040022
FL9304 F1J1E1040022
P2.5V
L8L2.5V
P1.2V
L8L1.2V
P3.3V
L8L3.3V
IC9300
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
LEFT
OCK
PCK
DCK
ENHMASK
VDI
HDI
TP9443 VIN
TP9444 HIN
SDA
SCL
FULL0
R9574 0
ROMCE
VREF
XRST
TRST
TDO
TDI
TMS
TCK
VDD25
TERM
5V_DET

TH-50PV60E, TH-50PX60B
D-Board (7 of 8) Schematic Diagram

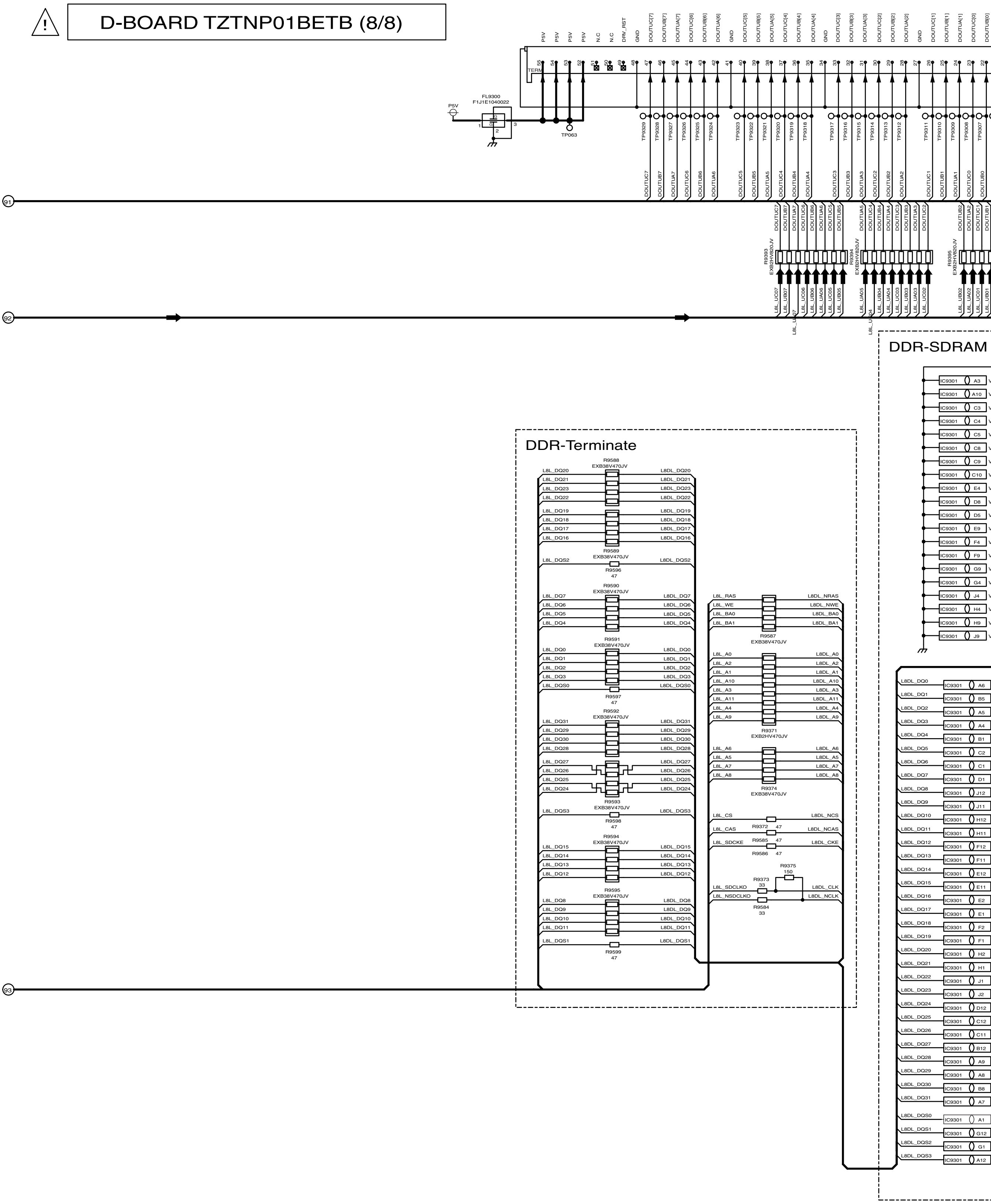
55 56 57 58 59

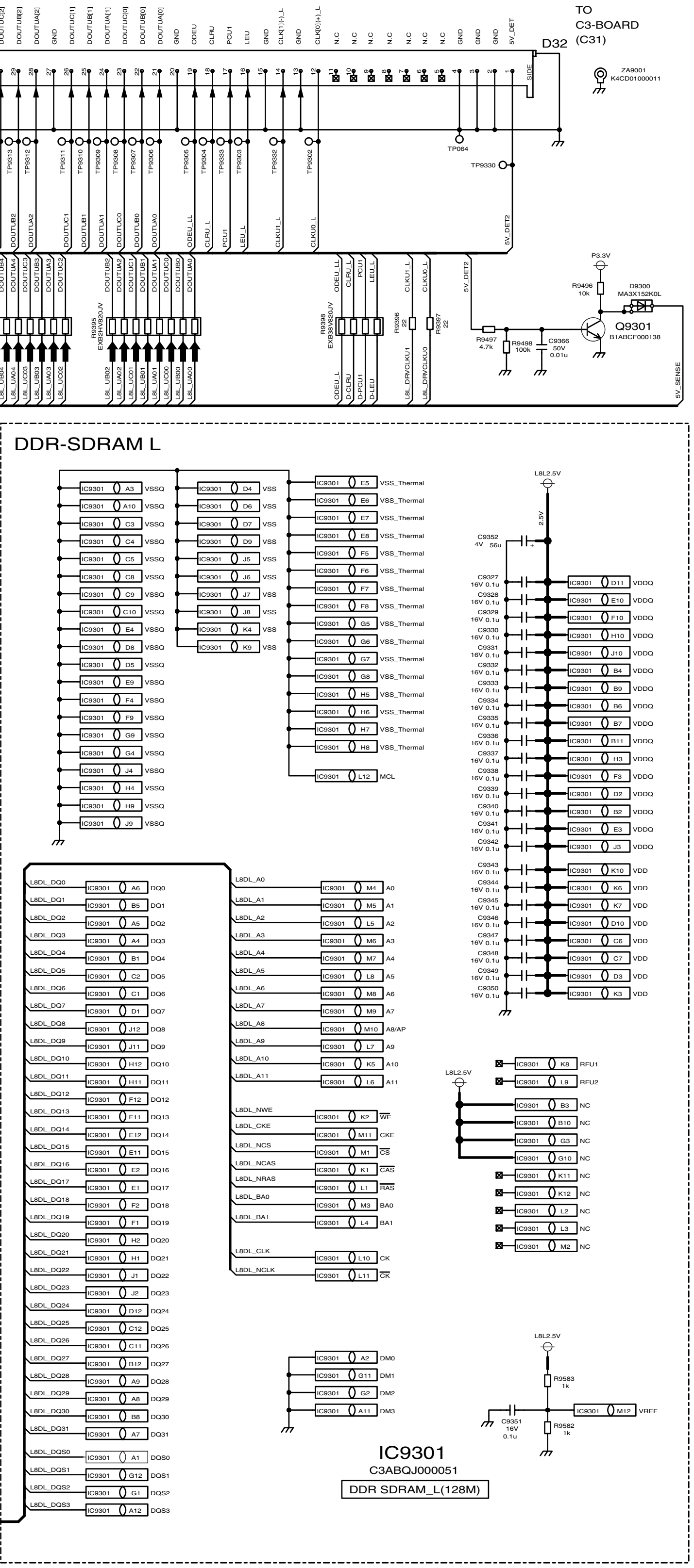

TO
C2-BOARD
(C21)
D31
TERM
SIDE
FL9301
J0HABH000013
P5V
TP065
TP066
TP126
P3.3V
R9320
10k
D9301
MA3X152K0L
R9318
4.7k
Q9302
B1ABCF000138
R9319
100k
C9367
50V
0.01u
5V_DET1
5V_SENSE
from FPGA
SFRST
SFVRST
LATCH
FPCLK
FPDAT0
FPDAT1
L8L_MONOUT1
to DDR
L8L1.2V
L8L3.3V
L8L2.5V
FL9306
J0HABH000013
FL9305
J0HABH000013
IC9300
MN84521-A(LSI58)
ORMAT CONVERTER
GB PROCESSOR
LASMA AI
UB FIELD PROCESSOR
ATA DRIVER
LEFT
MN84521-A
L8L_MUTE
L8L_TEST0
L8L_TEST1
L8L_K_TEST
L8L_TCKSEL0
L8L_TCKSEL1
L8L_TCKSEL2
L8L_SDIV0
L8L_SDIV1
L8L_FULL1
L8L_SDSEL
L8L_TCPOUT
L8L_MONOUT0
L8L_MONOUT2
L8L_OCKOUT
L8L_TILD
L8L_TIIC
R9389
10k
R9390
10k
R9391
10k
R9602
R9512

TH-50PV60E, TH-50PX60B
D-Board (7 of 8) Schematic Diagram

59 60 61 62 63

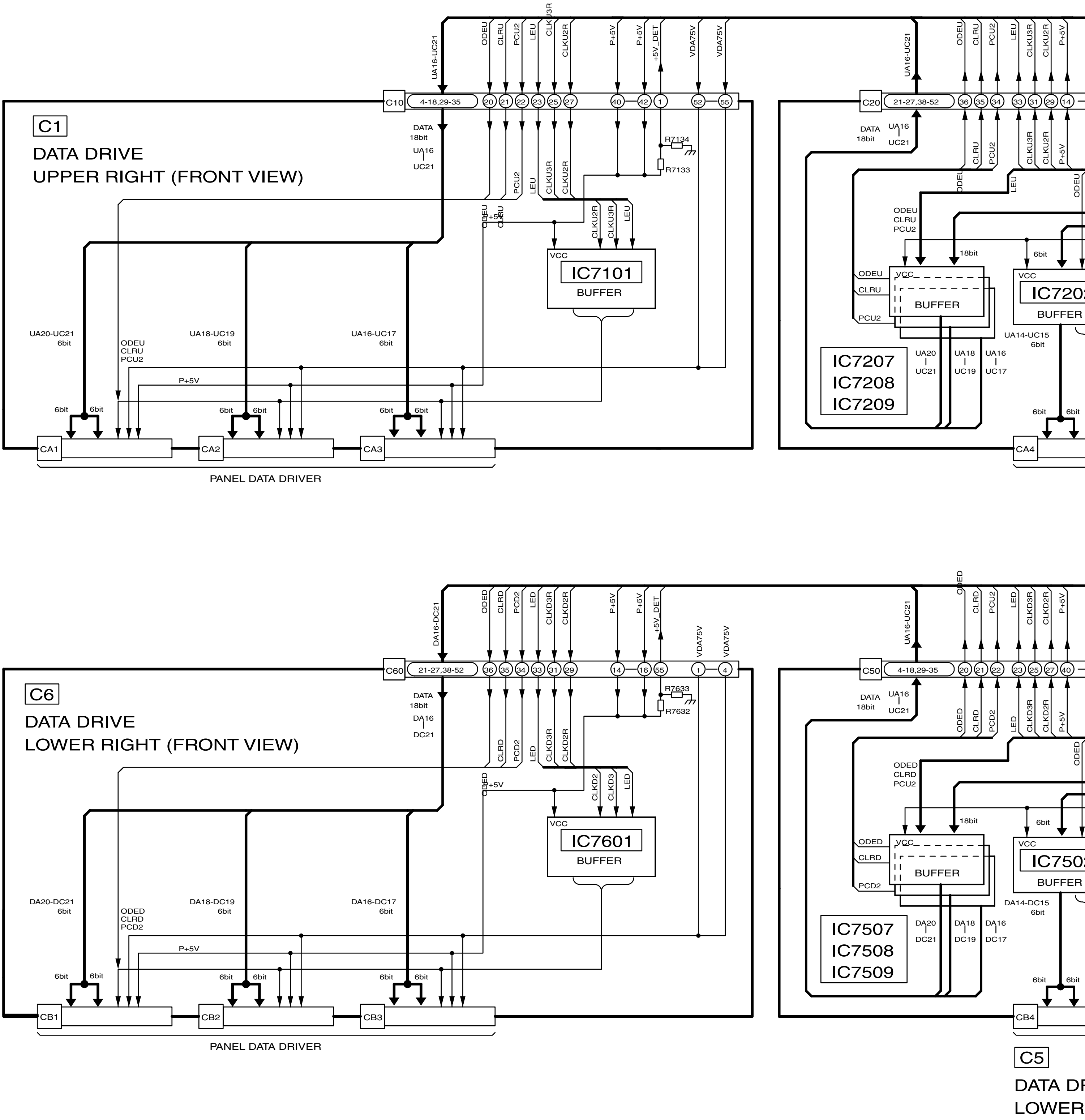
14.43. D-Board (7 of 8) Schematic Diagram


D-BOARD TZTNP01BETB (8/8)
FL9300
F1J1E1040022
P5V
TP063
TERM
DRV_RST
GND
N.C
91
92
93
R9393
EXB2HV820JV
R9394
EXB2HV820JV
R9395
EXB2HV820JV
DDR-SDRAM
IC9301
DDR-Terminate
R9588
EXB38V470JV
R9589
EXB38V470JV
R9590
EXB38V470JV
R9591
EXB38V470JV
R9592
EXB38V470JV
R9593
EXB38V470JV
R9594
EXB38V470JV
R9595
EXB38V470JV
R9596
R9597
R9598
R9599
47
R9587
EXB38V470JV
R9371
EXB2HV470JV
R9374
EXB38V470JV
R9372
R9585
R9586
R9375
150
R9373
R9584
33
L8L_RAS
L8L_WE
L8L_BA0
L8L_BA1
L8DL_NRAS
L8DL_NWE
L8DL_BA0
L8DL_BA1
L8L_CS
L8L_CAS
L8L_SDCKE
L8DL_NCS
L8DL_NCAS
L8DL_CKE
L8L_SDCLKO
L8L_NSDCLKO
L8DL_CLK
L8DL_NCLK
L8DL_DQS0
L8DL_DQS1
L8DL_DQS2
L8DL_DQS3
TH-50PV60E, TH-50PX60B
D-Board (8 of 8) Schematic Diagram
64
65
66
67
68

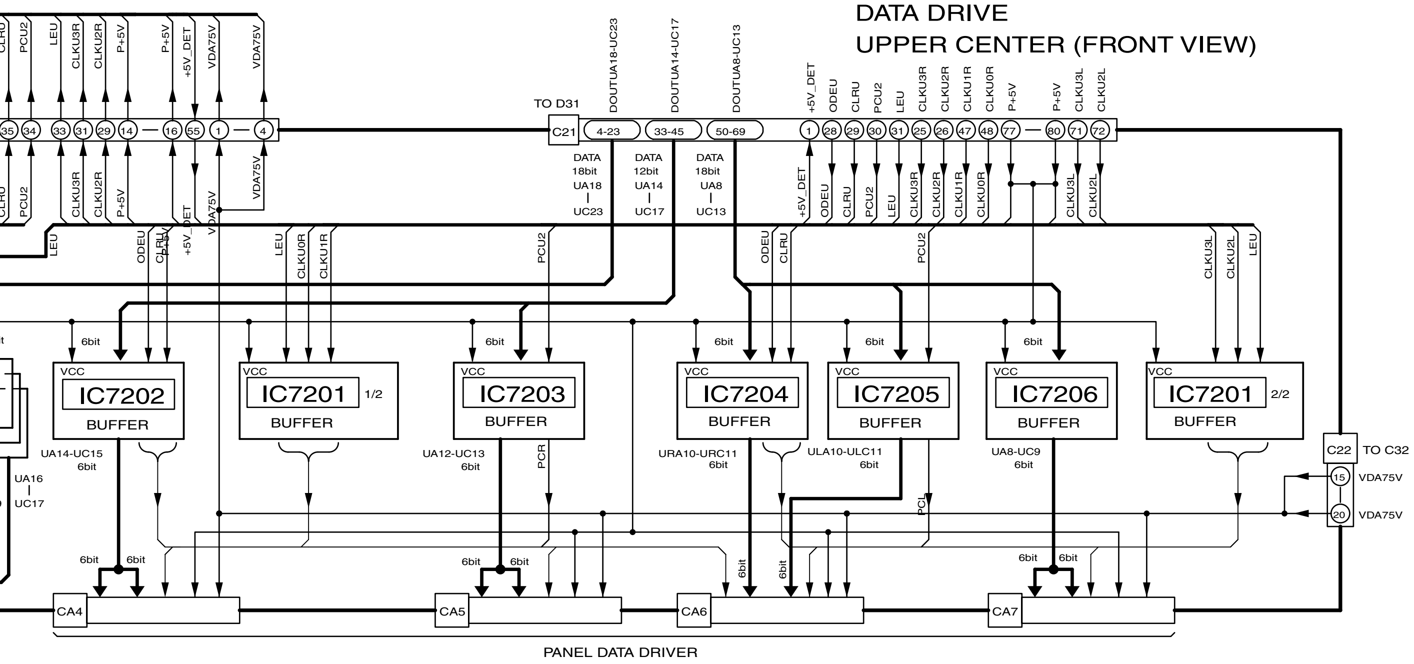

TO
C3-BOARD
(C31)
D32
ZA9001
K4CD01000011
TP064
TP9330
5V_DET2
5V_SENSE
P3.3V
R9496
10k
D9300
MA3X152K0L
Q9301
B1ABCF000138
R9497
4.7k
R9498
100k
C9366
50V
0.01u
R9395
EXB2HV820JV
R9398
EXB3V820JV
R9396
22
R9397
22
DDR-SDRAM L
L8L2.5V
C9352
4V 56u
VSSQ
VSS
VSS_Thermal
MCL
VDDQ
VDD
RFU1
RFU2
NC
DM0
DM1
DM2
DM3
R9583
1k
R9582
1k
C9351
16V
0.1u
VREF
IC9301
C3ABQJ000051
DDR SDRAM_L(128M)

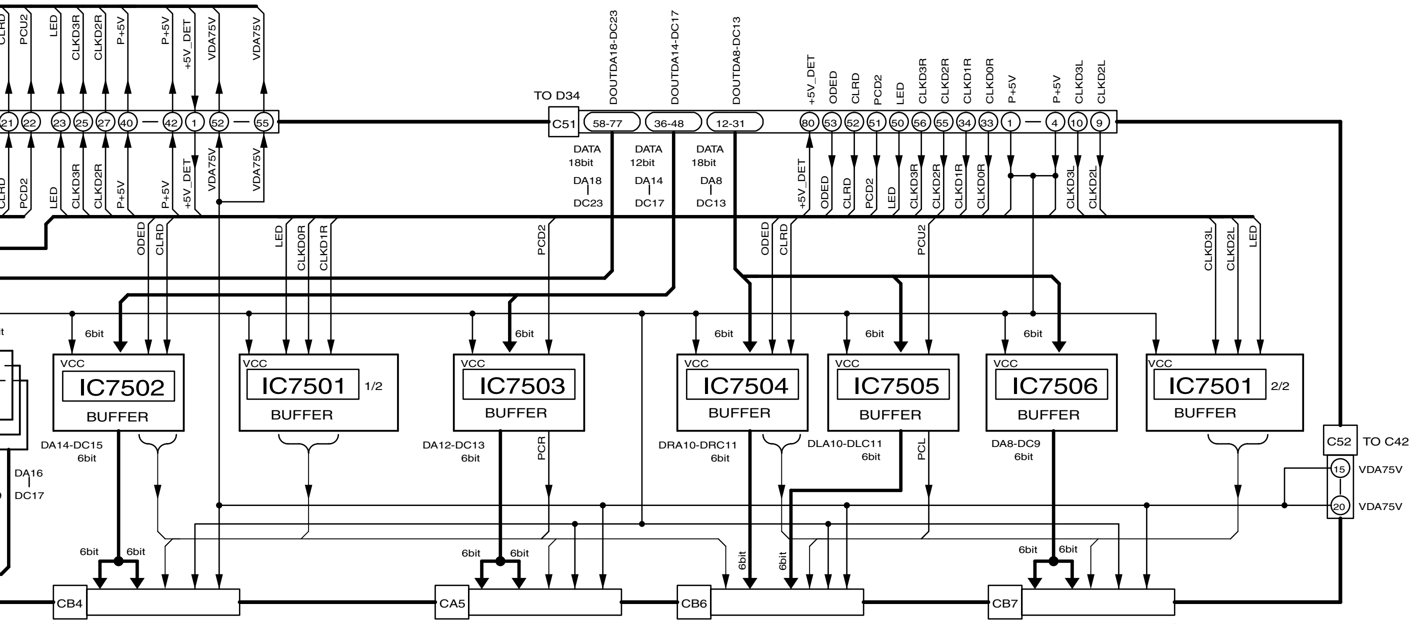
TH-50PV60E, TH-50PX60B
D-Board (8 of 8) Schematic Diagram

14.44. C1, C2, C5 and C6-Board Block Diagram


C1
DATA DRIVE
UPPER RIGHT (FRONT VIEW)
C10
4-18,29-35
UA16-UC21
ODEU
CLRU
PCU2
LEU
CLKU3R
CLKU2R
P+5V
+5V_DET
VDA75V
DATA 18bit
UA16 UC21
R7134
R7133
IC7101
BUFFER
VCC
UA20-UC21 6bit
UA18-UC19 6bit
UA16-UC17 6bit
ODEU CLRU PCU2
P+5V
6bit
CA1
CA2
CA3
PANEL DATA DRIVER
C20
21-27,38-52
18bit
IC7207
IC7208
IC7209
UA20 UC21
UA18 UC19
UA16 UC17
UA14-UC15 6bit
CA4
C6
DATA DRIVE
LOWER RIGHT (FRONT VIEW)
C60
DA16-DC21
ODED
CLRD
PCD2
LED
CLKD3R
CLKD2R
CLKD2
CLKD3
DATA 18bit
DA16 DC21
R7633
R7632
IC7601
BUFFER
DA20-DC21 6bit
DA18-DC19 6bit
DA16-DC17 6bit
ODED CLRD PCD2
CB1
CB2
CB3
C50
IC7507
IC7508
IC7509
DA20 DC21
DA18 DC19
DA16 DC17
DA14-DC15 6bit
CB4
C5
DATA DR
LOWER

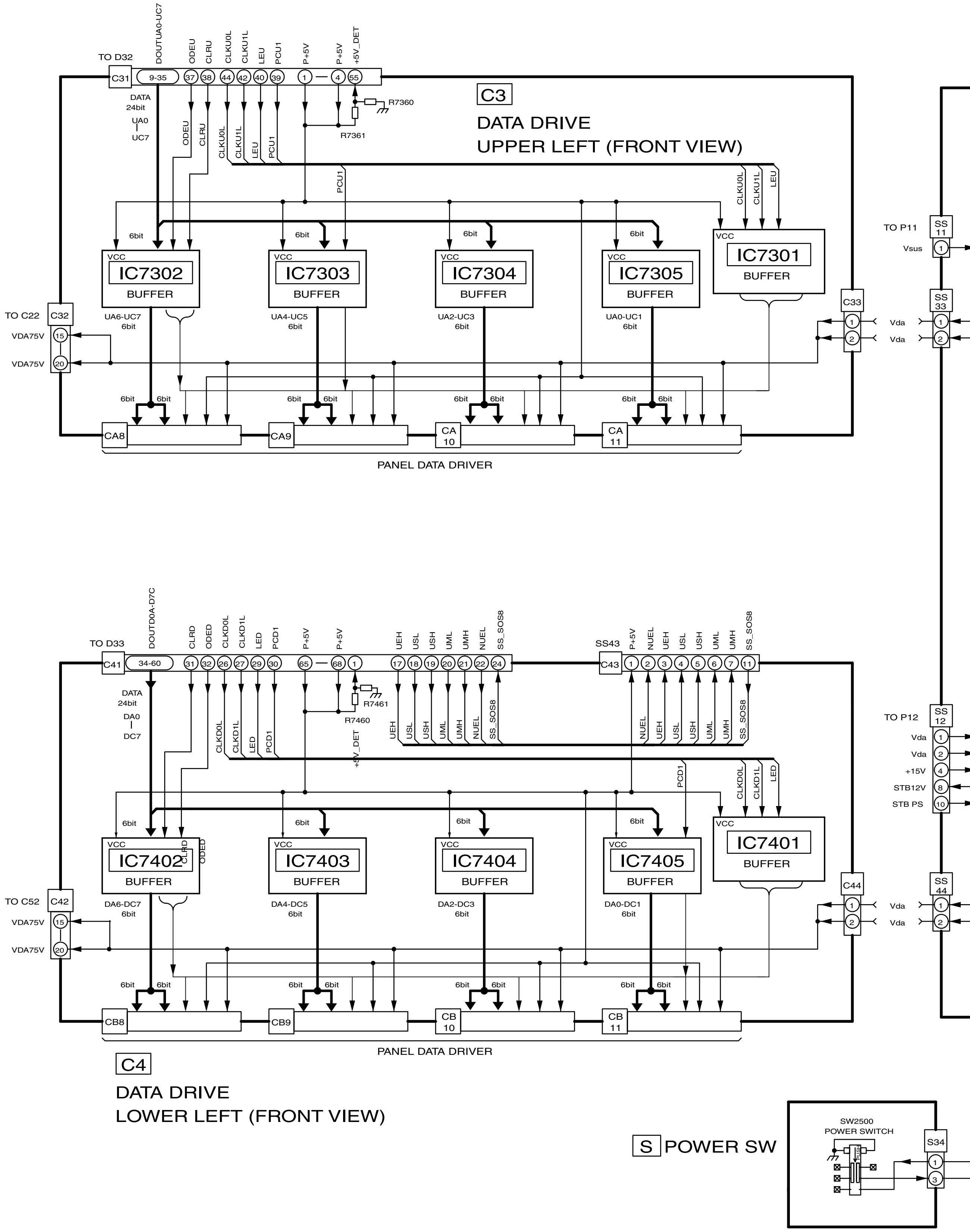
C2
DATA DRIVE
UPPER CENTER (FRONT VIEW)

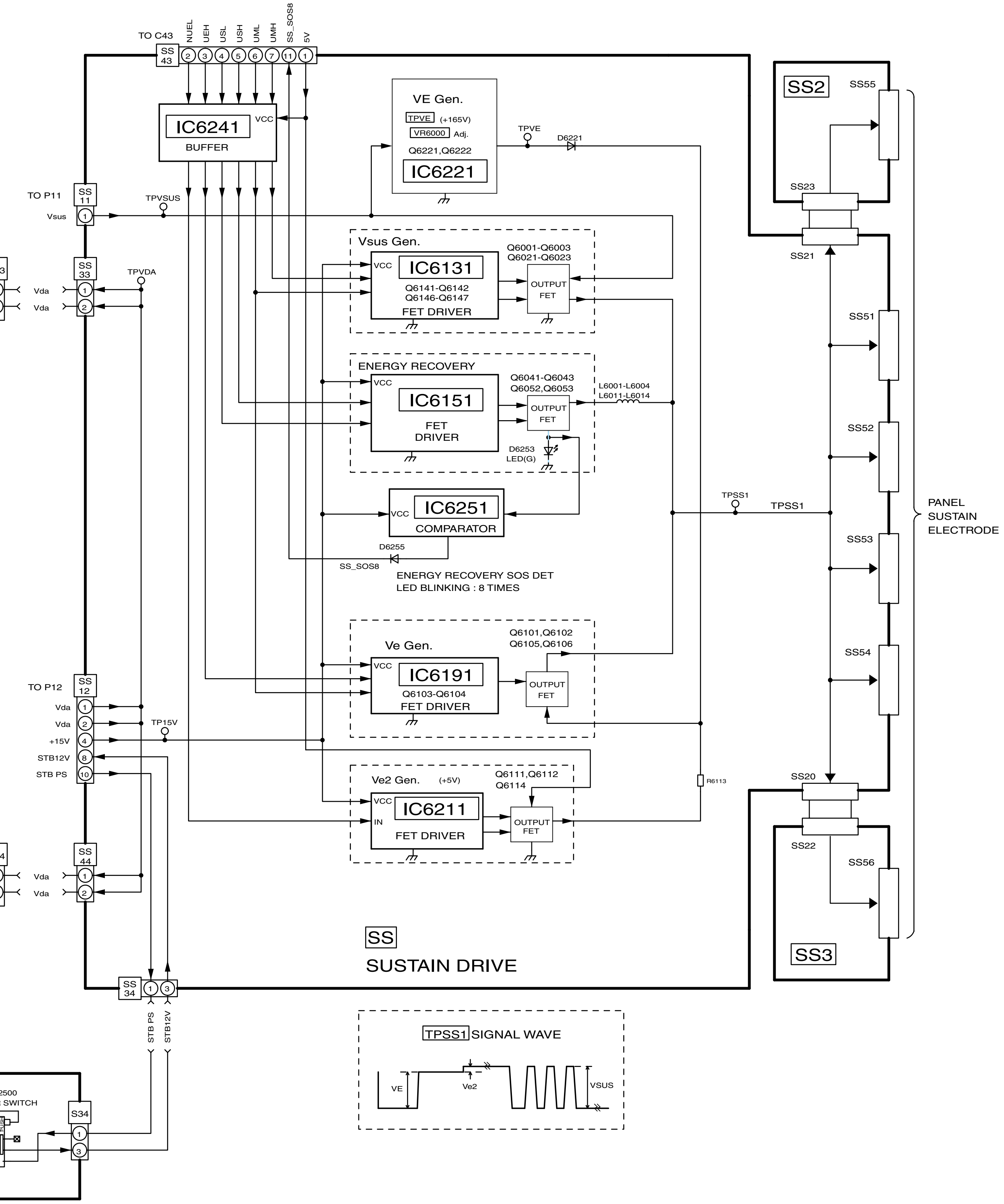

TO D31
C21
4-23
33-45
50-69
DOUTUA18-UC23
DOUTUA14-UC17
DOUTUA8-UC13
DATA 18bit UA18 UC23
DATA 12bit UA14 UC17
DATA 18bit UA8 UC13
+5V_DET
ODEU
CLRU
PCU2
LEU
CLKU3R
CLKU2R
CLKU1R
CLKU0R
P+5V
CLKU3L
CLKU2L
VDA75V
IC7202 BUFFER
IC7201 1/2 BUFFER
IC7203 BUFFER
IC7204 BUFFER
IC7205 BUFFER
IC7206 BUFFER
IC7201 2/2 BUFFER
VCC
6bit
UA14-UC15 6bit
UA16 UC17
UA12-UC13 6bit
URA10-URC11 6bit
ULA10-ULC11 6bit
UA8-UC9 6bit
PCR
PCL
C22
TO C32
VDA75V
CA4
CA5
CA6
CA7
PANEL DATA DRIVER


TO D34
C51
58-77
36-48
12-31
DOUTDA18-DC23
DOUTDA14-DC17
DOUTDA8-DC13
DATA 18bit DA18 DC23
DATA 12bit DA14 DC17
DATA 18bit DA8 DC13
+5V_DET
ODED
CLRD
PCD2
LED
CLKD3R
CLKD2R
CLKD1R
CLKD0R
P+5V
CLKD3L
CLKD2L
VDA75V
IC7502 BUFFER
IC7501 1/2 BUFFER
IC7503 BUFFER
IC7504 BUFFER
IC7505 BUFFER
IC7506 BUFFER
IC7501 2/2 BUFFER
VCC
6bit
DA14-DC15 6bit
DA16 DC17
DA12-DC13 6bit
DRA10-DRC11 6bit
DLA10-DLC11 6bit
DA8-DC9 6bit
PCR
PCL
C52
TO C42
VDA75V
CB4
CA5
CB6
CB7
PANEL DATA DRIVER

C5
DATA DRIVE
LOWER CENTER (FRONT VIEW)

14.45. C3, C4, SS, S, SS2 and SS3-Board Block Diagram

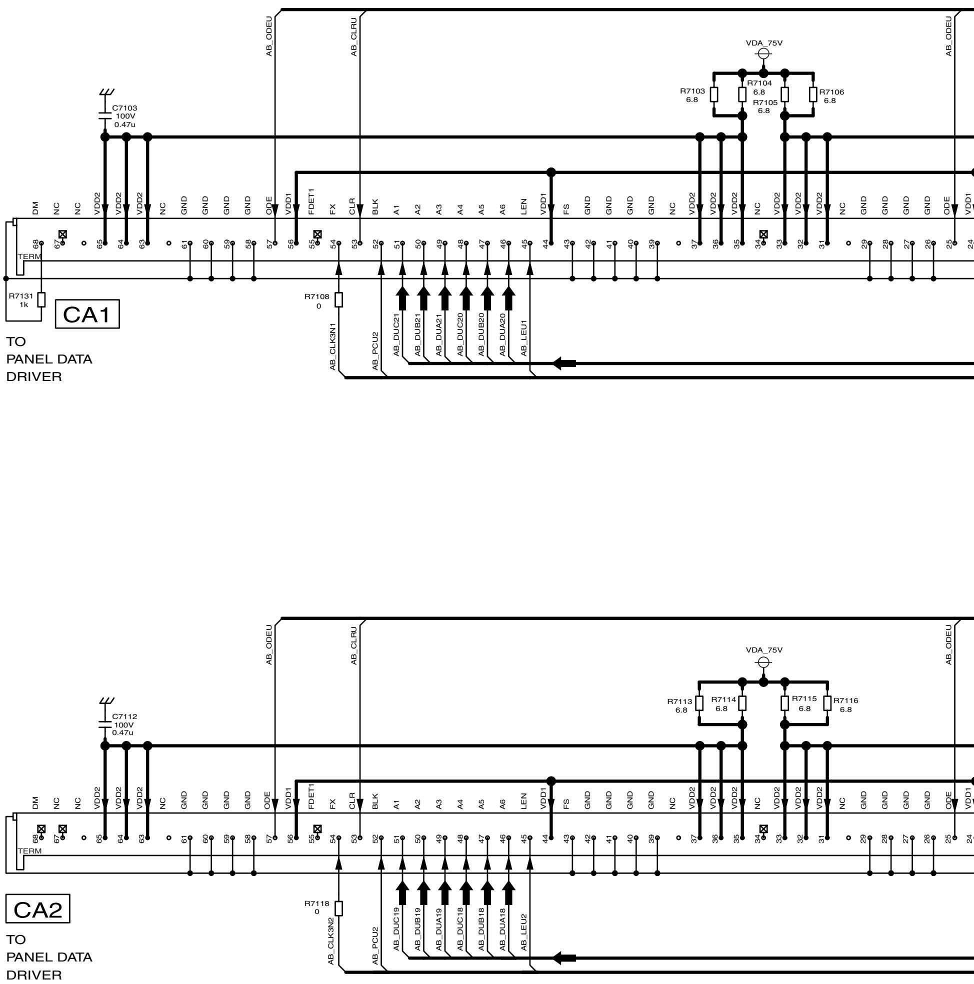

C3
DATA DRIVE
UPPER LEFT (FRONT VIEW)
TO D32
C31
9-35
DOUTUA0-UC7
ODEU
CLRU
CLKU0L
CLKU1L
LEU
PCU1
P+5V
P+5V
+5V_DET
R7360
R7361
DATA
24bit
UA0
UC7
IC7302
BUFFER
UA6-UC7
6bit
IC7303
BUFFER
UA4-UC5
6bit
IC7304
BUFFER
UA2-UC3
6bit
IC7305
BUFFER
UA0-UC1
6bit
IC7301
BUFFER
VCC
TO C22
C32
VDA75V
VDA75V
C33
Vda
Vda
CA8
CA9
CA 10
CA 11
PANEL DATA DRIVER
TO P11
SS 11
Vsus
SS 33
C4
DATA DRIVE
LOWER LEFT (FRONT VIEW)
TO D33
C41
34-60
DOUTD0A-D7C
CLRD
ODED
CLKD0L
CLKD1L
LED
PCD1
P+5V
P+5V
+5V_DET
R7461
R7460
UEH
USL
USH
UML
UMH
NUEL
SS_SOS8
SS43
C43
DATA
24bit
DA0
DC7
IC7402
BUFFER
DA6-DC7
6bit
IC7403
BUFFER
DA4-DC5
6bit
IC7404
BUFFER
DA2-DC3
6bit
IC7405
BUFFER
DA0-DC1
6bit
IC7401
BUFFER
TO C52
C42
VDA75V
VDA75V
C44
Vda
Vda
CB8
CB9
CB 10
CB 11
PANEL DATA DRIVER
TO P12
SS 12
Vda
Vda
+15V
STB12V
STB PS
SS 44
S
POWER SW
SW2500
POWER SWITCH
S34

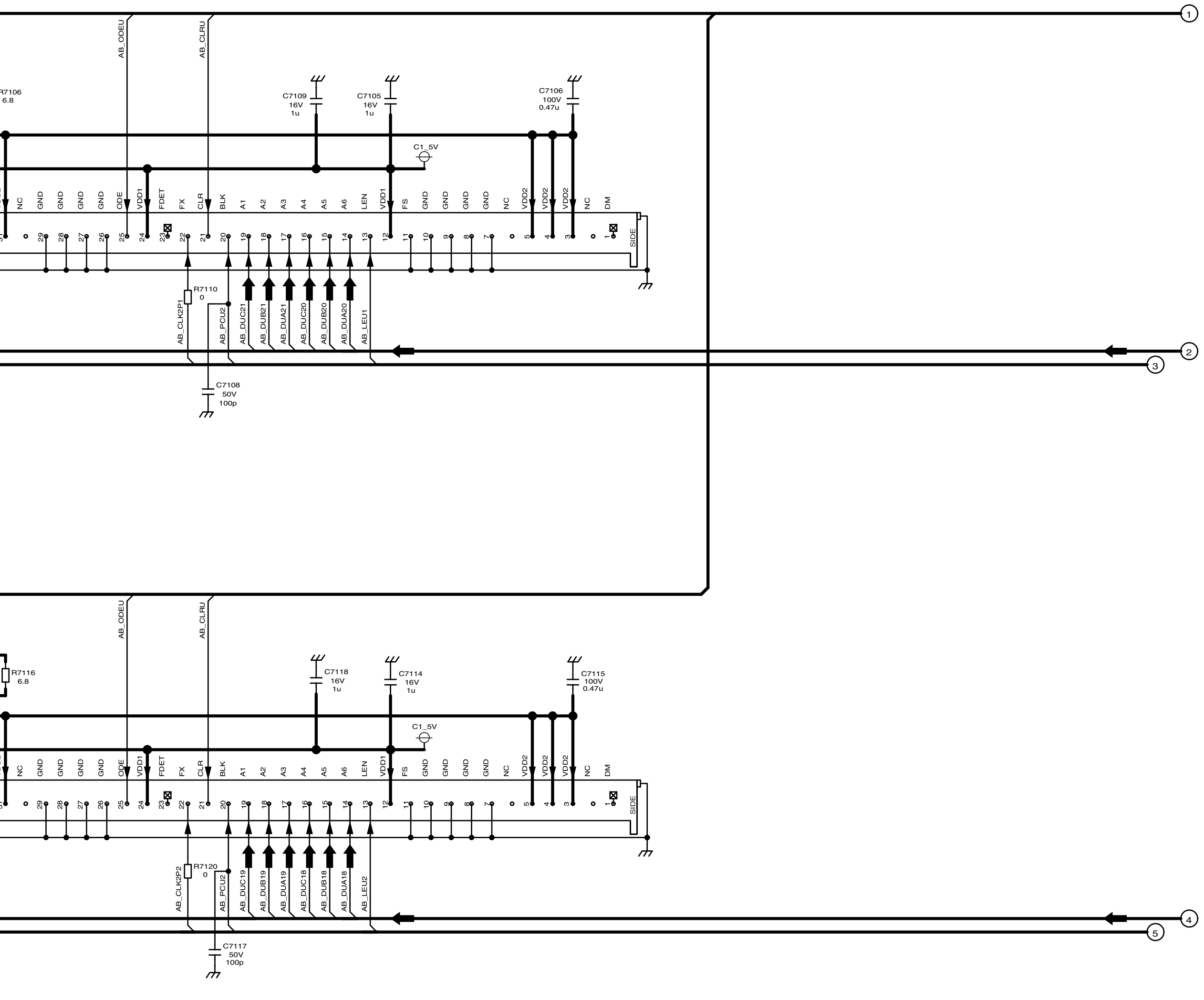

TO C43
SS 43
NUEL
UEH
USL
USH
UML
UMH
SS_SOS8
5V
IC6241
VCC
BUFFER
VE Gen.
TPVE (+165V)
VR6000 Adj.
Q6221,Q6222
IC6221
TPVE
D6221
SS2
SS55
SS23
SS21
TO P11
SS 11
Vsus
TPVSUS
Vsus Gen.
Q6001-Q6003
Q6021-Q6023
IC6131
VCC
Q6141-Q6142
Q6146-Q6147
FET DRIVER
OUTPUT FET
SS 33
TPVDA
Vda
Vda
SS51
ENERGY RECOVERY
Q6041-Q6043
Q6052,Q6053
IC6151
FET DRIVER
OUTPUT FET
L6001-L6004
L6011-L6014
D6253
LED(G)
SS52
IC6251
COMPARATOR
D6255
SS_SOS8
TPSS1
TPSS1
ENERGY RECOVERY SOS DET
LED BLINKING : 8 TIMES
PANEL
SUSTAIN
ELECTRODE
SS53
Ve Gen.
Q6101,Q6102
Q6105,Q6106
IC6191
Q6103-Q6104
FET DRIVER
OUTPUT FET
SS54
TO P12
SS 12
Vda
Vda
+15V
STB12V
STB PS
TP15V
Ve2 Gen. (+5V)
Q6111,Q6112
Q6114
IC6211
IN
FET DRIVER
OUTPUT FET
R6113
SS20
SS22
SS56
SS 44
Vda
Vda
SS
SUSTAIN DRIVE
SS3
SS 34
STB PS
STB12V
2500
SWITCH
S34
TPSS1 SIGNAL WAVE
VE
Ve2
VSUS

TH-50PV60B, TH-50PX60E
C3, C4, SS, S, SS2 and SS3-Board Block Diagram

14.46. C1-Board (1 of 2) Schematic Diagram

⚠ C1-BOARD TXNC11BETB (1/2)


A
B
C
D
E
1
2
3
4
AB_ODEU
AB_CLRU
VDA_75V
R7103 6.8
R7104 6.8
R7105 6.8
R7106 6.8
C7103 100V 0.47u
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
TERM
R7131 1k
CA1
TO PANEL DATA DRIVER
R7108 0
AB_CLK3N1
AB_PCU2
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
AB_LEU1
R7113 6.8
R7114 6.8
R7115 6.8
R7116 6.8
C7112 100V 0.47u
CA2
TO PANEL DATA DRIVER
R7118 0
AB_CLK3N2
AB_PCU2
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
AB_LEU2

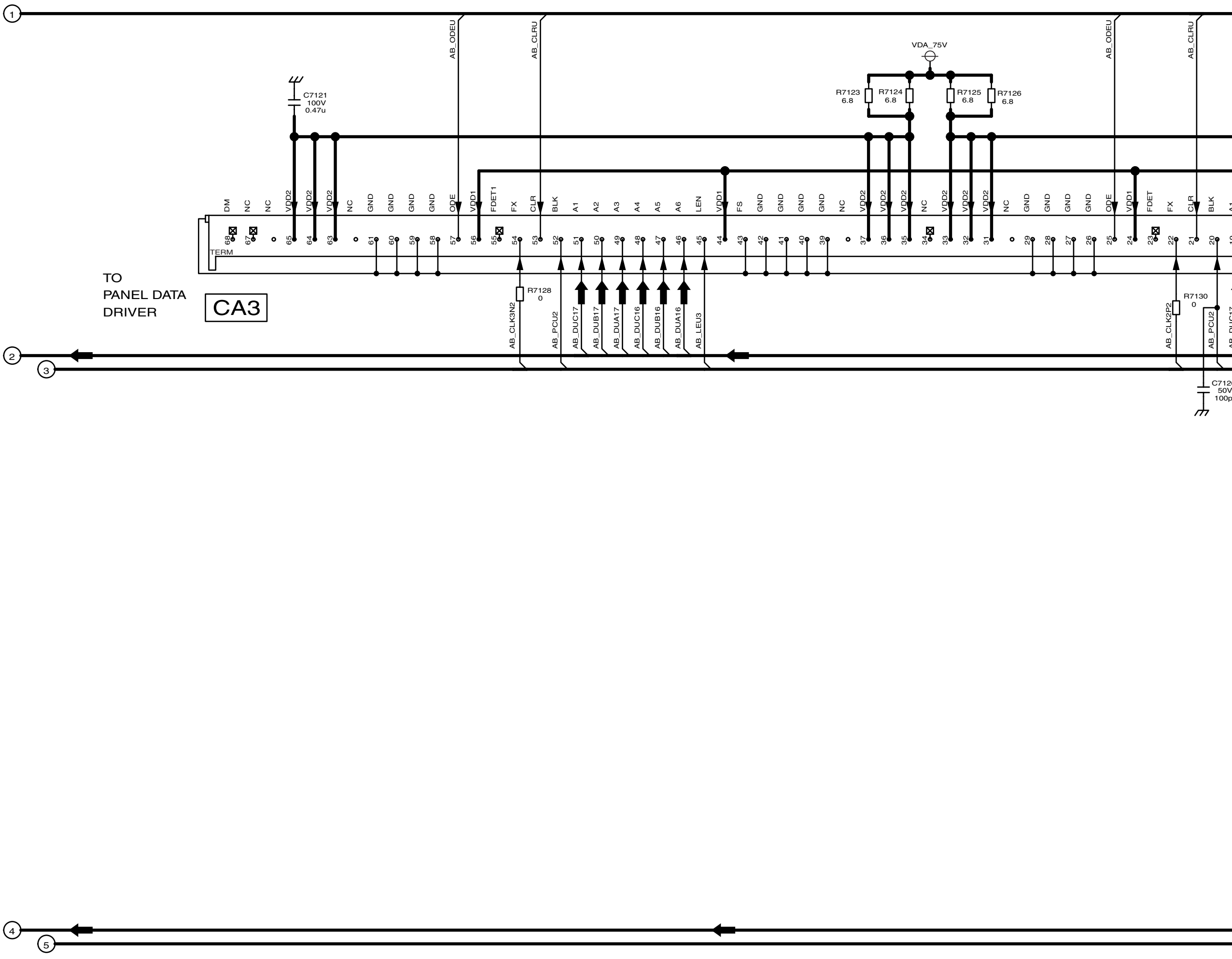

AB_ODEU
AB_CLRU
R7106
6.8
C7109
16V
1u
C7105
16V
1u
C7106
100V
0.47u
C1_5V
NC
GND
GND
GND
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
SIDE
R7110
0
AB_CLK2P1
AB_PCU2
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
AB_LEU1
C7108
50V
100p
1
2
3
R7116
6.8
C7118
16V
1u
C7114
16V
1u
C7115
100V
0.47u
R7120
0
AB_CLK2P2
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
AB_LEU2
C7117
50V
100p
4
5

TH-50PV60E, TH-50PX60B
C1-Board (1 of 2) Schematic Diagram

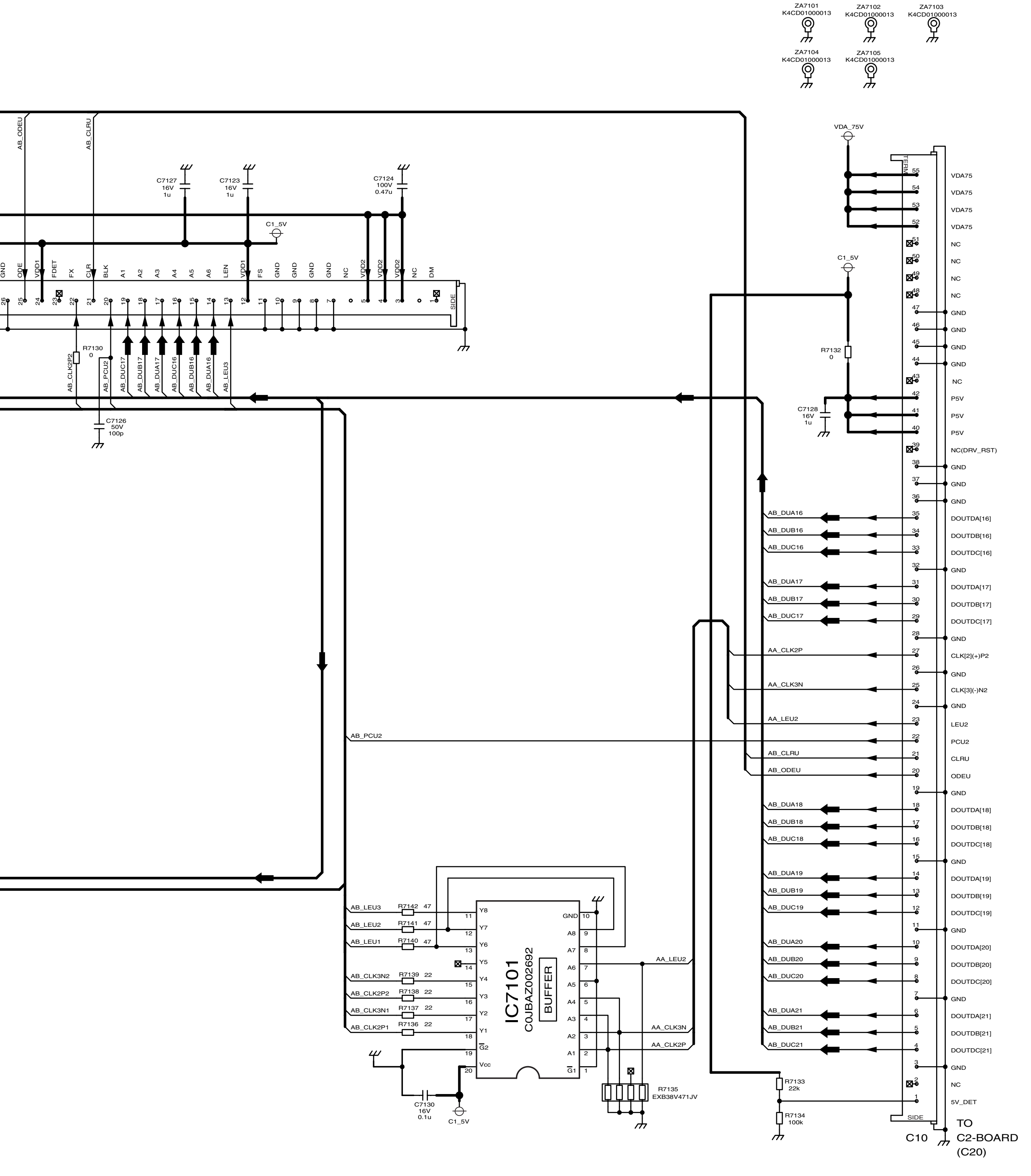
5 6 7 8

14.47. C1-Board (2 of 2) Schematic Diagram

⚠ C1-BOARD TXNC11BETB (2/2)



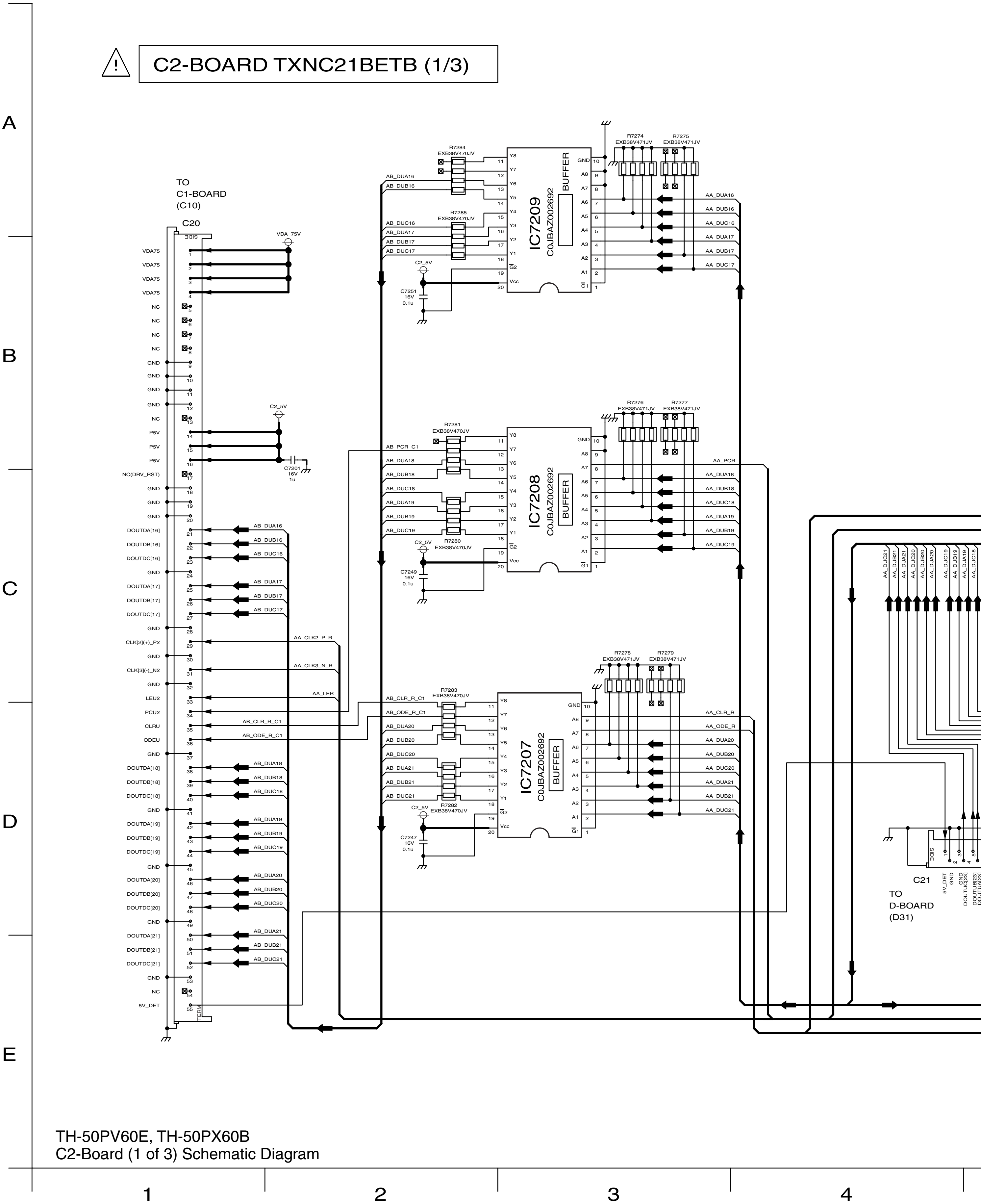
①
②
③
④
⑤
AB_ODEU
AB_CLRU
VDA_75V
C7121
100V
0.47u
R7123
6.8
R7124
6.8
R7125
6.8
R7126
6.8
DM NC NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET1 FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2 VDD2 NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET FX CLR BLK
68 67 65 64 63 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 37 36 35 34 33 32 31 29 28 27 26 25 24 23 22 21 20
TERM
TO
PANEL DATA
DRIVER
CA3
R7128
0
AB_CLK3N2
AB_PCU2
AB_DUC17
AB_DUB17
AB_DUA17
AB_DUC16
AB_DUB16
AB_DUA16
AB_LEU3
R7130
0
AB_CLK2P2
AB_PCU2
50V
100p


ZA7101
K4CD01000013
ZA7102
K4CD01000013
ZA7103
K4CD01000013
ZA7104
K4CD01000013
ZA7105
K4CD01000013
AB_ODEU
AB_CLRU
C7127
16V
1u
C7123
16V
1u
C7124
100V
0.47u
C1_5V
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
SIDE
R7130
0
AB_CLK2P2
AB_PCU2
AB_DUC17
AB_DUB17
AB_DUA17
AB_DUC16
AB_DUB16
AB_DUA16
AB_LEU3
C7126
50V
100p
VDA_75V
TERM
C1_5V
R7132
0
C7128
16V
1u
VDA75
VDA75
VDA75
VDA75
NC
NC
NC
NC
GND
GND
GND
GND
NC
P5V
P5V
P5V
NC(DRV_RST)
GND
GND
GND
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
GND
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
GND
CLK[2](+)P2
GND
CLK[3](-)N2
GND
LEU2
PCU2
CLRU
ODEU
GND
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
GND
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
GND
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
GND
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
GND
NC
5V_DET
AB_DUA16
AB_DUB16
AB_DUC16
AB_DUA17
AB_DUB17
AB_DUC17
AA_CLK2P
AA_CLK3N
AA_LEU2
AB_PCU2
AB_CLRU
AB_ODEU
AB_DUA18
AB_DUB18
AB_DUC18
AB_DUA19
AB_DUB19
AB_DUC19
AB_DUA20
AB_DUB20
AB_DUC20
AB_DUA21
AB_DUB21
AB_DUC21
AB_LEU3
AB_LEU2
AB_LEU1
AB_CLK3N2
AB_CLK2P2
AB_CLK3N1
AB_CLK2P1
R7142 47
R7141 47
R7140 47
R7139 22
R7138 22
R7137 22
R7136 22
IC7101
C0JBAZ002692
BUFFER
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
AA_LEU2
AA_CLK3N
AA_CLK2P
C7130
16V
0.1u
C1_5V
R7135
EXB38V471JV
R7133
22k
R7134
100k
SIDE
C10
TO
C2-BOARD
(C20)

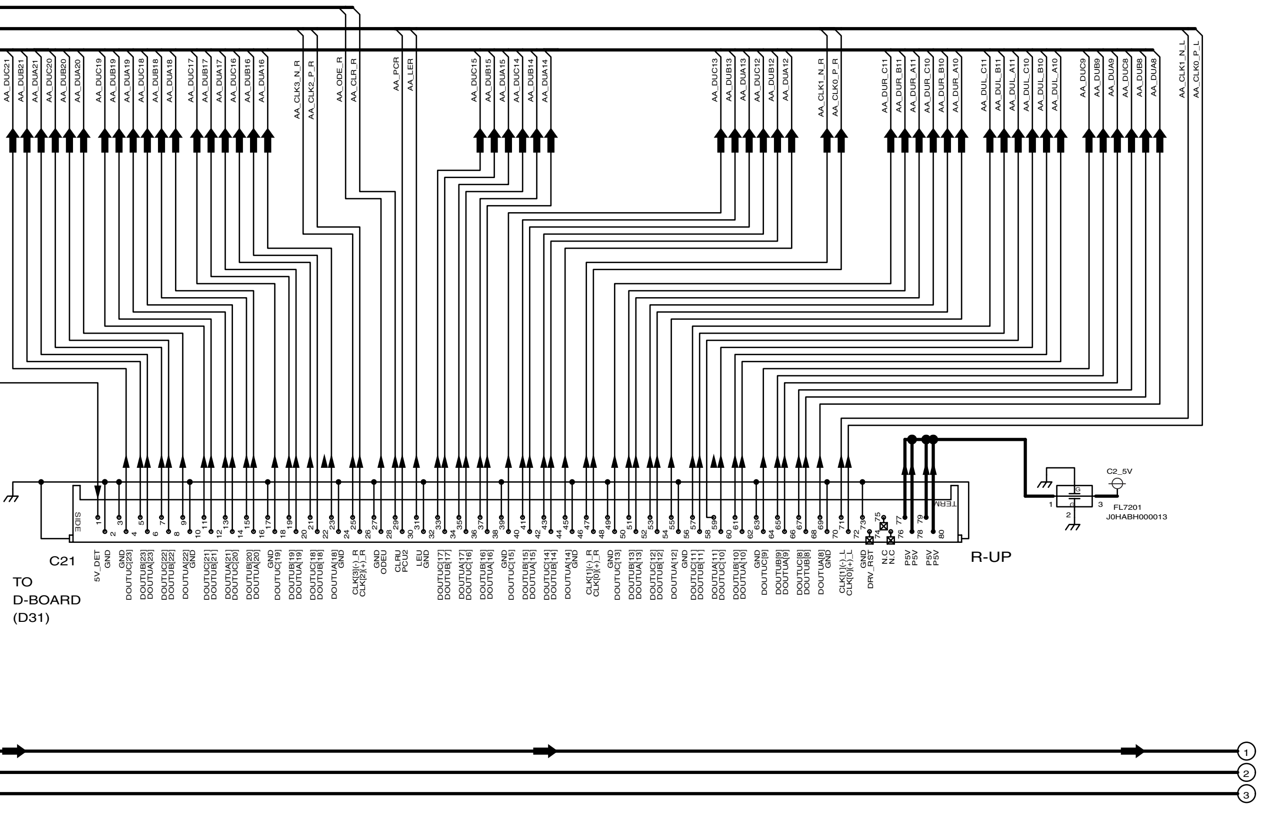
TH-50PV60E, TH-50PX60B
C1-Board (2 of 2) Schematic Diagram

12
13
14
15

14.48. C2-Board (1 of 3) Schematic Diagram


C2-BOARD TXNC21BETB (1/3)
A
B
C
D
E
1
2
3
4
TO
C1-BOARD
(C10)
C20
SIDE
TERM
VDA75
NC
GND
P5V
NC(DRV_RST)
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
CLK[2](+)_P2
CLK[3](-)_N2
LEU2
PCU2
CLRU
ODEU
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
5V_DET
VDA_75V
C2_5V
C7201
16V
1u
AA_CLK2_P_R
AA_CLK3_N_R
AA_LER
AB_CLR_R_C1
AB_ODE_R_C1
AB_PCR_C1
IC7209
IC7208
IC7207
C0JBAZ002692
BUFFER
R7284
R7285
R7281
R7280
R7283
R7282
EXB38V470JV
R7274
R7275
R7276
R7277
R7278
R7279
EXB38V471JV
C7251
C7249
C7247
16V
0.1u
GND
Vcc
AA_PCR
AA_CLR_R
AA_ODE_R
AA_DUA16
AA_DUB16
AA_DUC16
AA_DUA17
AA_DUB17
AA_DUC17
AA_DUA18
AA_DUB18
AA_DUC18
AA_DUA19
AA_DUB19
AA_DUC19
AA_DUA20
AA_DUB20
AA_DUC20
AA_DUA21
AA_DUB21
AA_DUC21
AB_DUA16
AB_DUB16
AB_DUC16
AB_DUA17
AB_DUB17
AB_DUC17
AB_DUA18
AB_DUB18
AB_DUC18
AB_DUA19
AB_DUB19
AB_DUC19
AB_DUA20
AB_DUB20
AB_DUC20
AB_DUA21
AB_DUB21
AB_DUC21
C21
TO
D-BOARD
(D31)
5V_DET
GND
DOUTUC[23]

TH-50PV60E, TH-50PX60B
C2-Board (1 of 3) Schematic Diagram

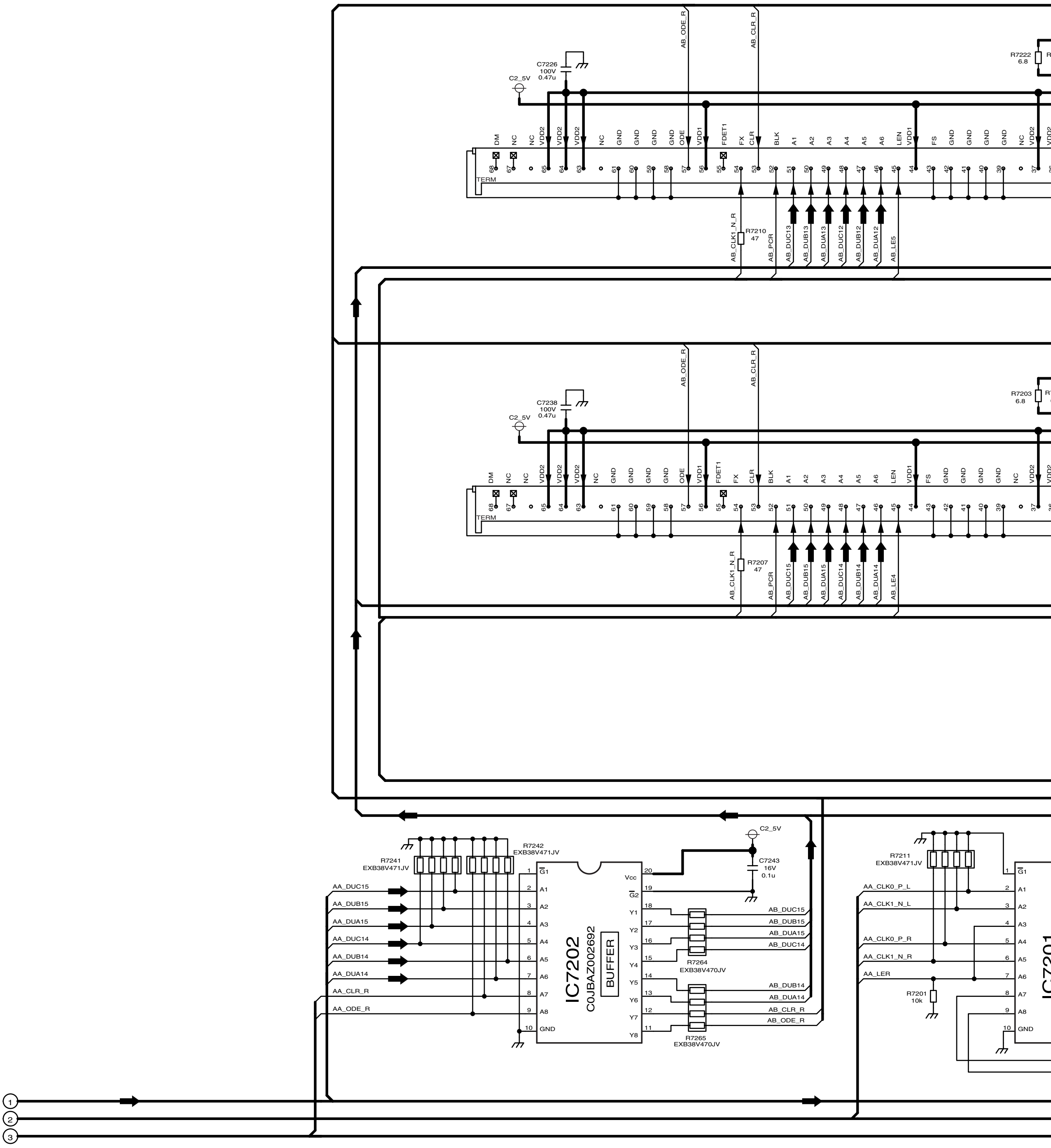

AA_DUC21
AA_DUB21
AA_DUA21
AA_DUC20
AA_DUB20
AA_DUA20
AA_DUC19
AA_DUB19
AA_DUA19
AA_DUC18
AA_DUB18
AA_DUA18
AA_DUC17
AA_DUB17
AA_DUA17
AA_DUC16
AA_DUB16
AA_DUA16
AA_CLK3_N_R
AA_CLK2_P_R
AA_ODE_R
AA_CLR_R
AA_PCR
AA_LER
AA_DUC15
AA_DUB15
AA_DUA15
AA_DUC14
AA_DUB14
AA_DUA14
AA_DUC13
AA_DUB13
AA_DUA13
AA_DUC12
AA_DUB12
AA_DUA12
AA_CLK1_N_R
AA_CLK0_P_R
AA_DUR_C11
AA_DUR_B11
AA_DUR_A11
AA_DUR_C10
AA_DUR_B10
AA_DUR_A10
AA_DUL_C11
AA_DUL_B11
AA_DUL_A11
AA_DUL_C10
AA_DUL_B10
AA_DUL_A10
AA_DUC9
AA_DUB9
AA_DUA9
AA_DUC8
AA_DUB8
AA_DUA8
AA_CLK1_N_L
AA_CLK0_P_L
SIDE
TERM
C21
TO
D-BOARD
(D31)
R-UP
C2_5V
FL7201
J0HABH000013
5V_DET
GND
DRV_RST
N.C
P5V
1
2
3

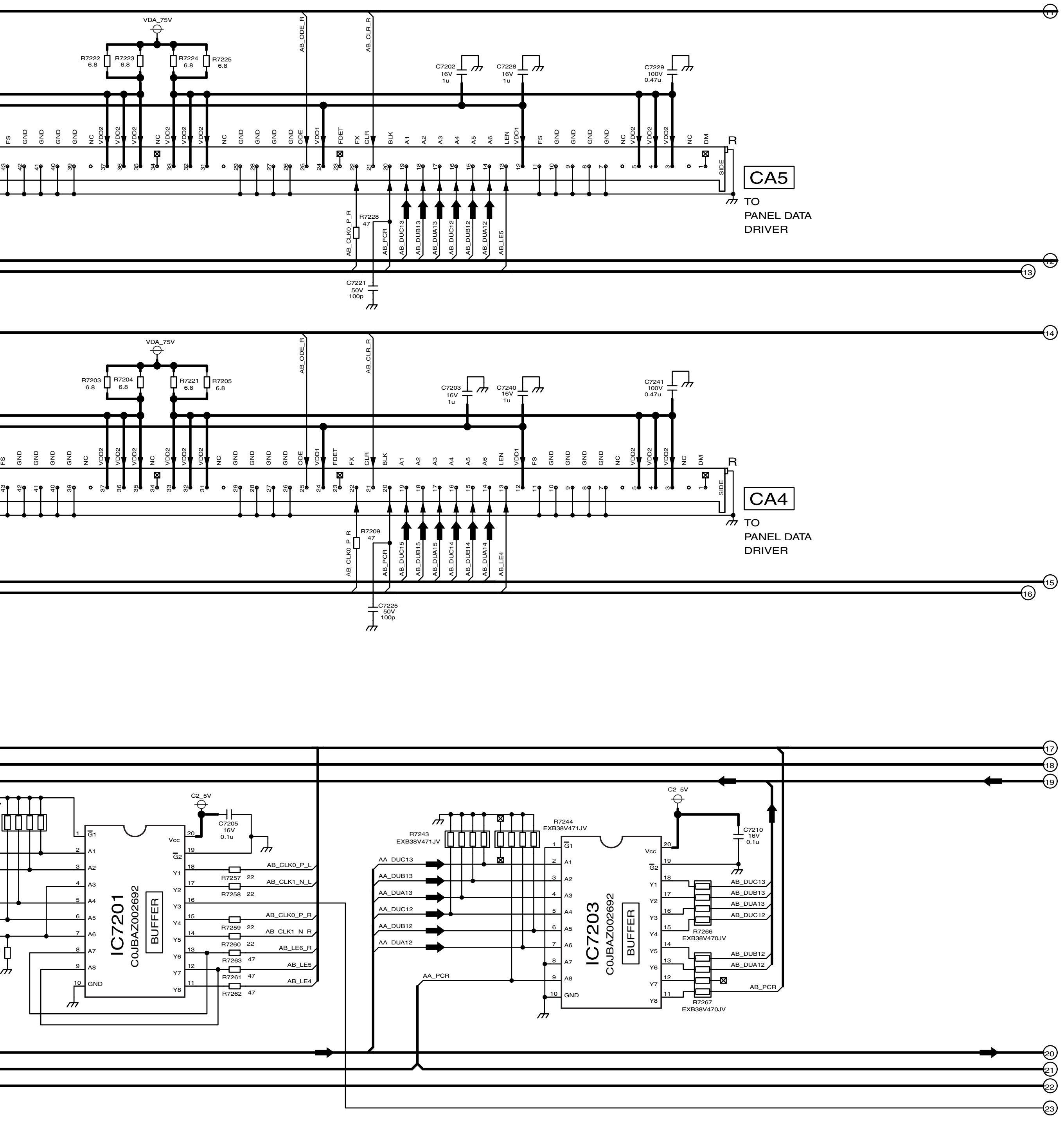
TH-50PV60E, TH-50PX60B
C2-Board (1 of 3) Schematic Diagram

5 6 7 8

14.49. C2-Board (2 of 3) Schematic Diagram

⚠ C2-BOARD TXNC21BETB (2/3)

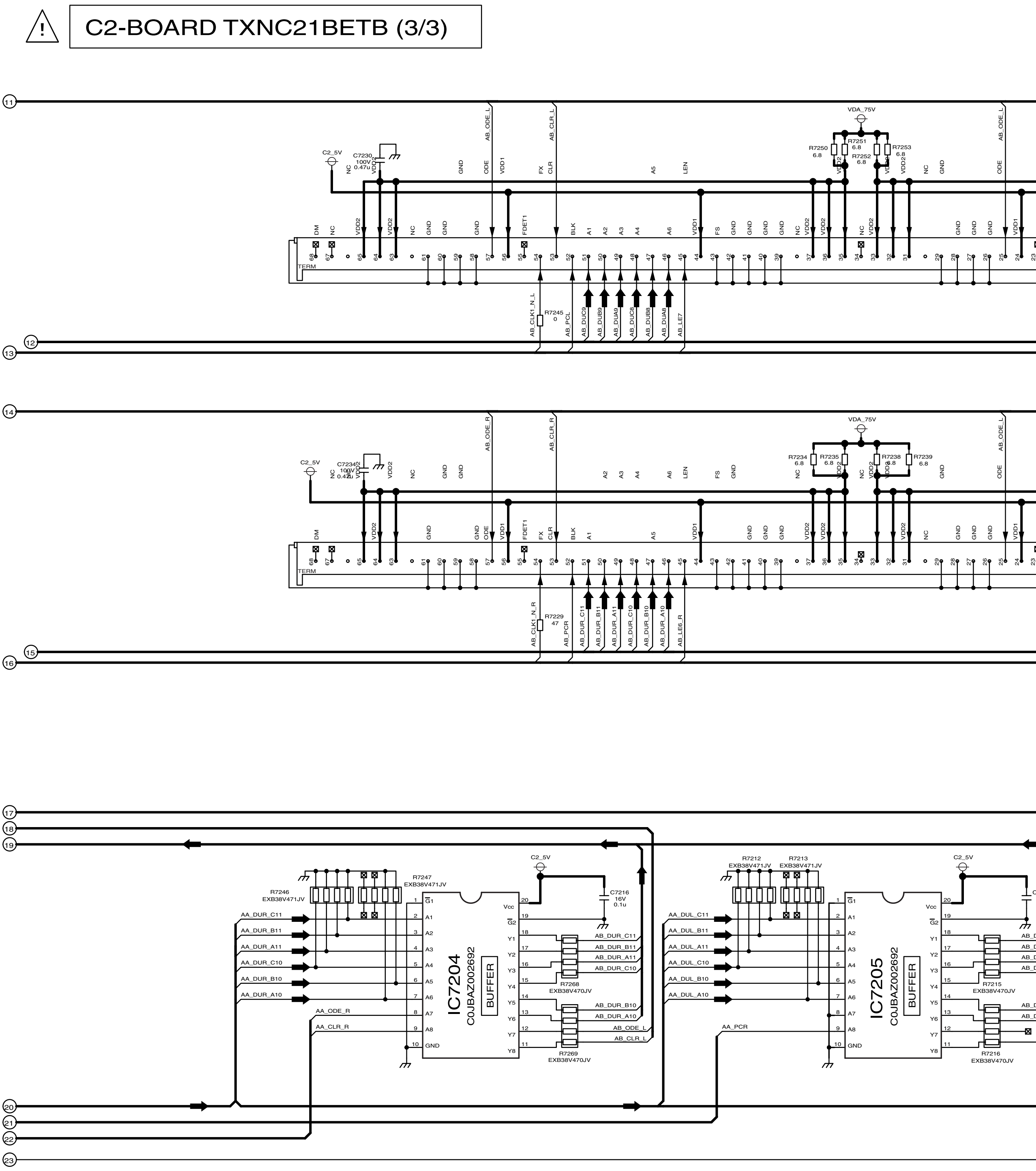

AB_ODE_R
AB_CLR_R
C7226
100V
0.47u
C2_5V
R7222
6.8
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
TERM
R7210
47
AB_CLK1_N_R
AB_PCR
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
AB_LE5
C7238
100V
0.47u
R7203
6.8
R7207
47
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
AB_LE4
R7241
EXB38V471JV
R7242
EXB38V471JV
AA_DUC15
AA_DUB15
AA_DUA15
AA_DUC14
AA_DUB14
AA_DUA14
AA_CLR_R
AA_ODE_R
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
IC7202
C0JBAZ002692
BUFFER
C7243
16V
0.1u
R7264
EXB38V470JV
R7265
EXB38V470JV
AB_CLR_R
AB_ODE_R
R7211
EXB38V471JV
AA_CLK0_P_L
AA_CLK1_N_L
AA_CLK0_P_R
AA_CLK1_N_R
AA_LER
R7201
10k
IC7201
1
2
3

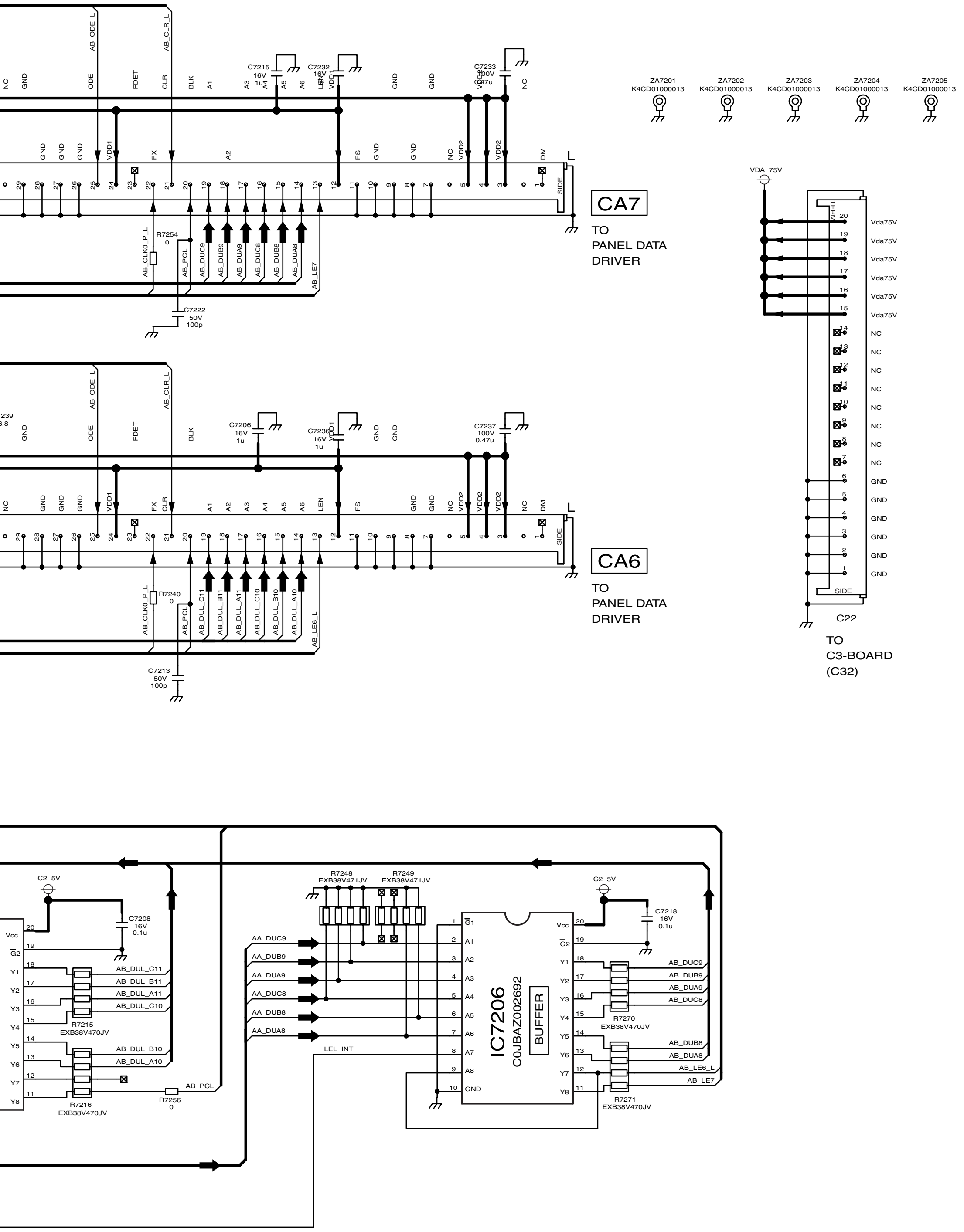

VDA_75V
R7222 6.8
R7223 6.8
R7224 6.8
R7225 6.8
AB_ODE_R
AB_CLR_R
C7202 16V 1u
C7228 16V 1u
C7229 100V 0.47u
FS GND GND GND GND NC VDD2 VDD2 VDD2 NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2 VDD2 NC DM
R
SIDE
CA5
TO PANEL DATA DRIVER
R7228 47
AB_CLK0_P_R
AB_PCR
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
AB_LE5
C7221 50V 100p
11
12
13
14
VDA_75V
R7203 6.8
R7204 6.8
R7221 6.8
R7205 6.8
AB_ODE_R
AB_CLR_R
C7203 16V 1u
C7240 16V 1u
C7241 100V 0.47u
CA4
TO PANEL DATA DRIVER
R7209 47
AB_CLK0_P_R
AB_PCR
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
AB_LE4
C7225 50V 100p
15
16
17
18
19
C2_5V
C7205 16V 0.1u
IC7201
C0JBAZ002692
BUFFER
G1 A1 A2 A3 A4 A5 A6 A7 A8 GND
Vcc G2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
R7257 22
R7258 22
R7259 22
R7260 22
R7263 47
R7261 47
R7262 47
AB_CLK0_P_L
AB_CLK1_N_L
AB_CLK0_P_R
AB_CLK1_N_R
AB_LE6_R
AB_LE5
AB_LE4
R7243 EXB38V471JV
R7244 EXB38V471JV
AA_DUC13
AA_DUB13
AA_DUA13
AA_DUC12
AA_DUB12
AA_DUA12
AA_PCR
C2_5V
C7210 16V 0.1u
IC7203
C0JBAZ002692
BUFFER
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
R7266 EXB38V470JV
AB_DUB12
AB_DUA12
AB_PCR
R7267 EXB38V470JV
20
21
22
23

TH-50PV60E, TH-50PX60B
C2-Board (2 of 3) Schematic Diagram

12 13 14 15

14.50. C2-Board (3 of 3) Schematic Diagram

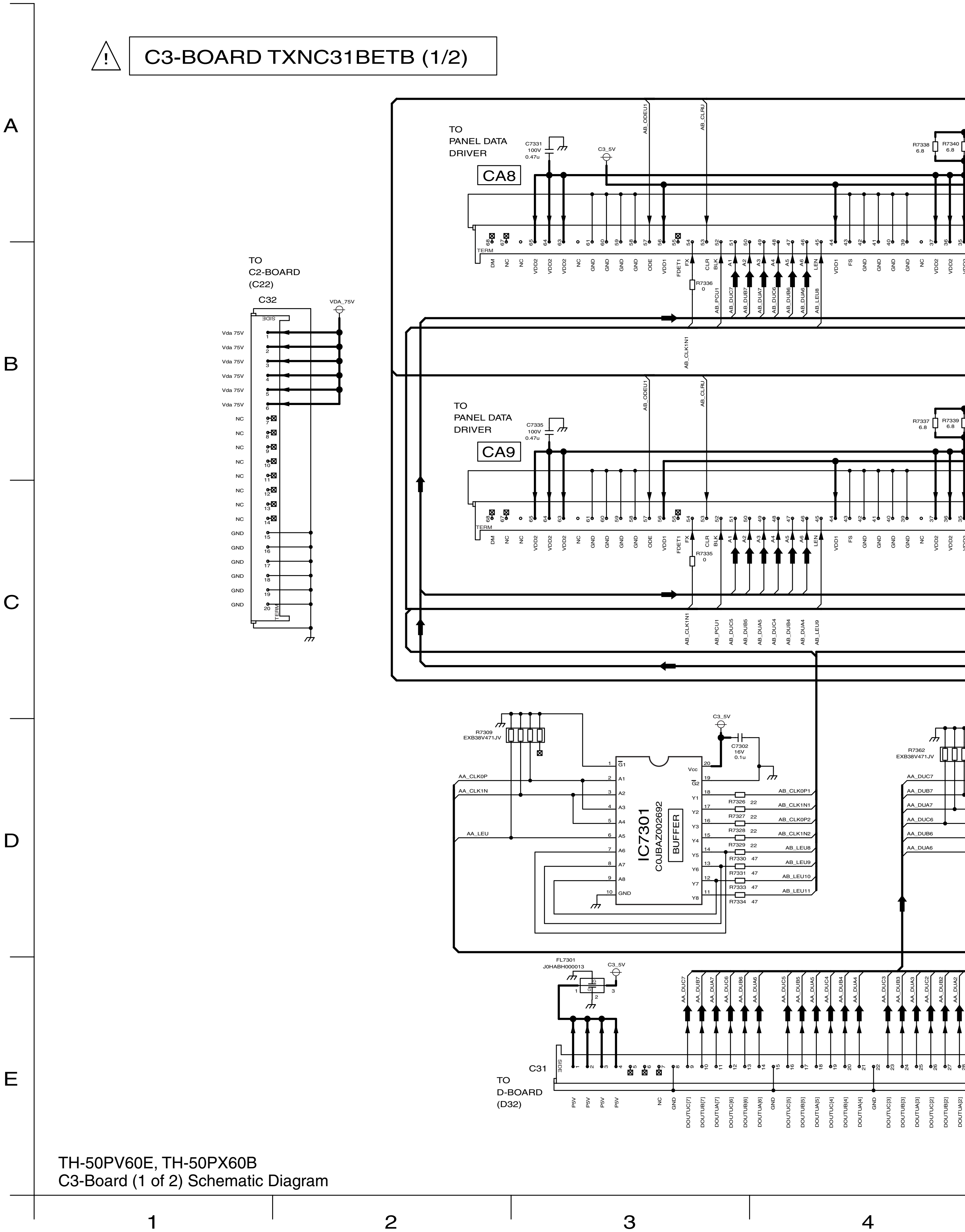

C2-BOARD TXNC21BETB (3/3)
C2_5V
VDA_75V
C7230 100V 0.47u
C7234 100V 0.47u
R7250 6.8
R7251 6.8
R7252 6.8
R7253 6.8
R7234 6.8
R7235 6.8
R7238 6.8
R7239 6.8
R7245 0
R7229 47
AB_ODE_L
AB_CLR_L
AB_ODE_R
AB_CLR_R
AB_CLK1_N_L
AB_CLK1_N_R
AB_PCL
AB_PCR
AB_DUC9
AB_DUB9
AB_DUA9
AB_DUC8
AB_DUB8
AB_DUA8
AB_LE7
AB_DUR_C11
AB_DUR_B11
AB_DUR_A11
AB_DUR_C10
AB_DUR_B10
AB_DUR_A10
AB_LE6_R
DM
NC
VDD1
VDD2
GND
ODE
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
TERM
R7246 EXB38V471JV
R7247 EXB38V471JV
C7216 16V 0.1u
AA_DUR_C11
AA_DUR_B11
AA_DUR_A11
AA_DUR_C10
AA_DUR_B10
AA_DUR_A10
AA_ODE_R
AA_CLR_R
IC7204
C0JBAZ002692
BUFFER
R7268 EXB38V470JV
R7269 EXB38V470JV
AB_ODE_L
AB_CLR_L
R7212 EXB38V471JV
R7213 EXB38V471JV
AA_DUL_C11
AA_DUL_B11
AA_DUL_A11
AA_DUL_C10
AA_DUL_B10
AA_DUL_A10
AA_PCR
IC7205
C0JBAZ002692
BUFFER
R7215 EXB38V470JV
R7216 EXB38V470JV
G1
G2
Vcc
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
A7
A8
11
12
13
14
15
16
17
18
19
20
21
22
23


AB_ODE_L
AB_CLR_L
C7215 16V 1u
C7232 16V 1u
C7233 100V 0.47u
ZA7201 K4CD01000013
ZA7202 K4CD01000013
ZA7203 K4CD01000013
ZA7204 K4CD01000013
ZA7205 K4CD01000013
CA7
TO PANEL DATA DRIVER
R7254 0
AB_CLK0_P_L
AB_PCL
AB_DUC9
AB_DUB9
AB_DUA9
AB_DUC8
AB_DUB8
AB_DUA8
AB_LE7
C7222 50V 100p
VDA_75V
Vda75V
NC
GND
TERM
SIDE
C22
TO C3-BOARD (C32)
C7206 16V 1u
C7236 16V 1u
C7237 100V 0.47u
CA6
TO PANEL DATA DRIVER
R7240 0
AB_DUL_C11
AB_DUL_B11
AB_DUL_A11
AB_DUL_C10
AB_DUL_B10
AB_DUL_A10
AB_LE6_L
C7213 50V 100p
ODE
FDET
CLR
BLK
FX
LEN
FS
VDD1
VDD2
DM
C2_5V
C7208 16V 0.1u
R7215 EXB38V470JV
R7216 EXB38V470JV
R7256 0
AB_PCL
R7248 EXB38V471JV
R7249 EXB38V471JV
AA_DUC9
AA_DUB9
AA_DUA9
AA_DUC8
AA_DUB8
AA_DUA8
LEL_INT
IC7206
C0JBAZ002692
BUFFER
C7218 16V 0.1u
R7270 EXB38V470JV
R7271 EXB38V470JV
AB_DUC9
AB_DUB9
AB_DUA9
AB_DUC8
AB_DUB8
AB_DUA8
AB_LE6_L
AB_LE7

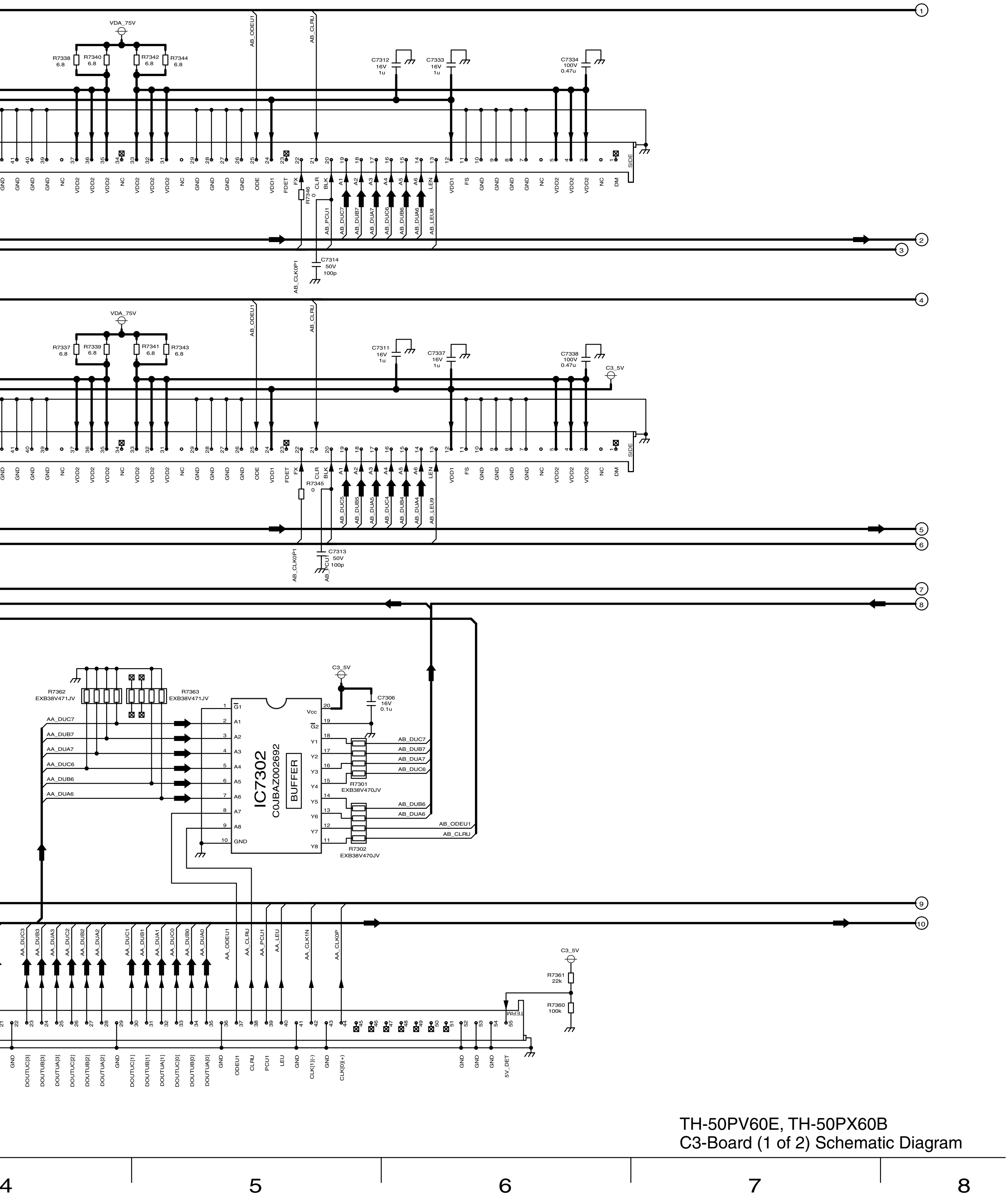
TH-50PV60E, TH-50PX60B
C2-Board (3 of 3) Schematic Diagram

20 21 22 23

14.51. C3-Board (1 of 2) Schematic Diagram

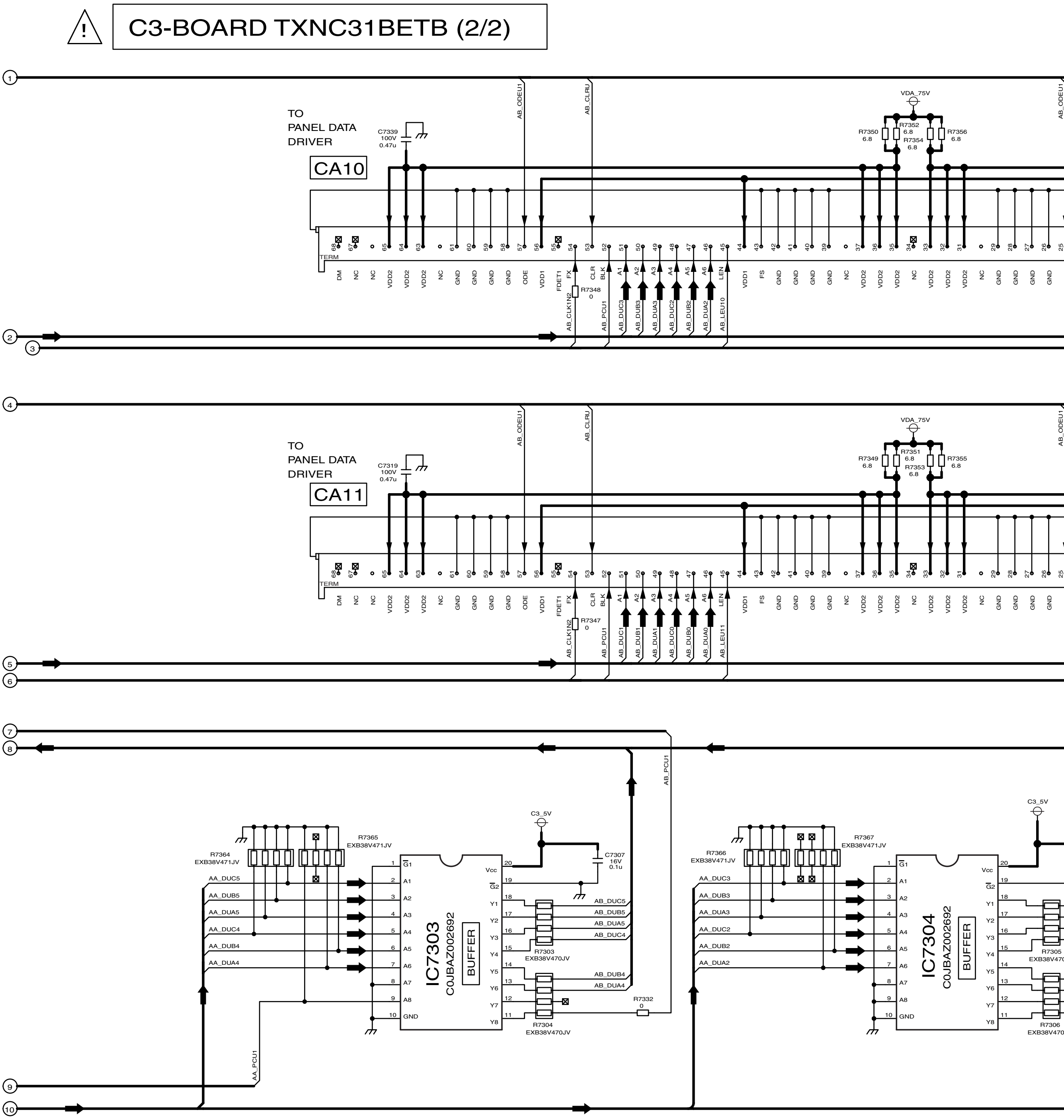

C3-BOARD TXNC31BETB (1/2)
A
B
C
D
E
1
2
3
4
TO PANEL DATA DRIVER
CA8
C7331 100V 0.47u
C3_5V
AB_ODEU1
AB_CLRU
R7338 6.8
R7340 6.8
TERM
DM NC NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET1 FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2
R7336 0
AB_PCU1 AB_DUC7 AB_DUB7 AB_DUA7 AB_DUC6 AB_DUB6 AB_DUA6 AB_LEU8
AB_CLK1N1
TO PANEL DATA DRIVER
CA9
C7335 100V 0.47u
R7337 6.8
R7339 6.8
R7335 0
AB_CLK1N1 AB_PCU1 AB_DUC5 AB_DUB5 AB_DUA5 AB_DUC4 AB_DUB4 AB_DUA4 AB_LEU9
TO C2-BOARD (C22)
C32
VDA_75V
SIDE
Vda 75V
Vda 75V
Vda 75V
Vda 75V
Vda 75V
Vda 75V
NC
NC
NC
NC
NC
NC
NC
NC
GND
GND
GND
GND
GND
GND
R7309 EXB38V471JV
C3_5V
C7302 16V 0.1u
AA_CLK0P
AA_CLK1N
AA_LEU
IC7301
C0JBAZ002692
BUFFER
G1 A1 A2 A3 A4 A5 A6 A7 A8 GND
Vcc G2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
R7326 22
R7327 22
R7328 22
R7329 22
R7330 47
R7331 47
R7333 47
R7334 47
AB_CLK0P1
AB_CLK1N1
AB_CLK0P2
AB_CLK1N2
AB_LEU8
AB_LEU9
AB_LEU10
AB_LEU11
R7362 EXB38V471JV
AA_DUC7 AA_DUB7 AA_DUA7 AA_DUC6 AA_DUB6 AA_DUA6
FL7301 J0HABH000013
C3_5V
AA_DUC7 AA_DUB7 AA_DUA7 AA_DUC6 AA_DUB6 AA_DUA6 AA_DUC5 AA_DUB5 AA_DUA5 AA_DUC4 AA_DUB4 AA_DUA4 AA_DUC3 AA_DUB3 AA_DUA3 AA_DUC2 AA_DUB2 AA_DUA2
C31
TO D-BOARD (D32)
P5V P5V P5V P5V NC GND DOUTUC[7] DOUTUB[7] DOUTUA[7] DOUTUC[6] DOUTUB[6] DOUTUA[6] GND DOUTUC[5] DOUTUB[5] DOUTUA[5] DOUTUC[4] DOUTUB[4] DOUTUA[4] GND DOUTUC[3] DOUTUB[3] DOUTUA[3] DOUTUC[2] DOUTUB[2] DOUTUA[2]

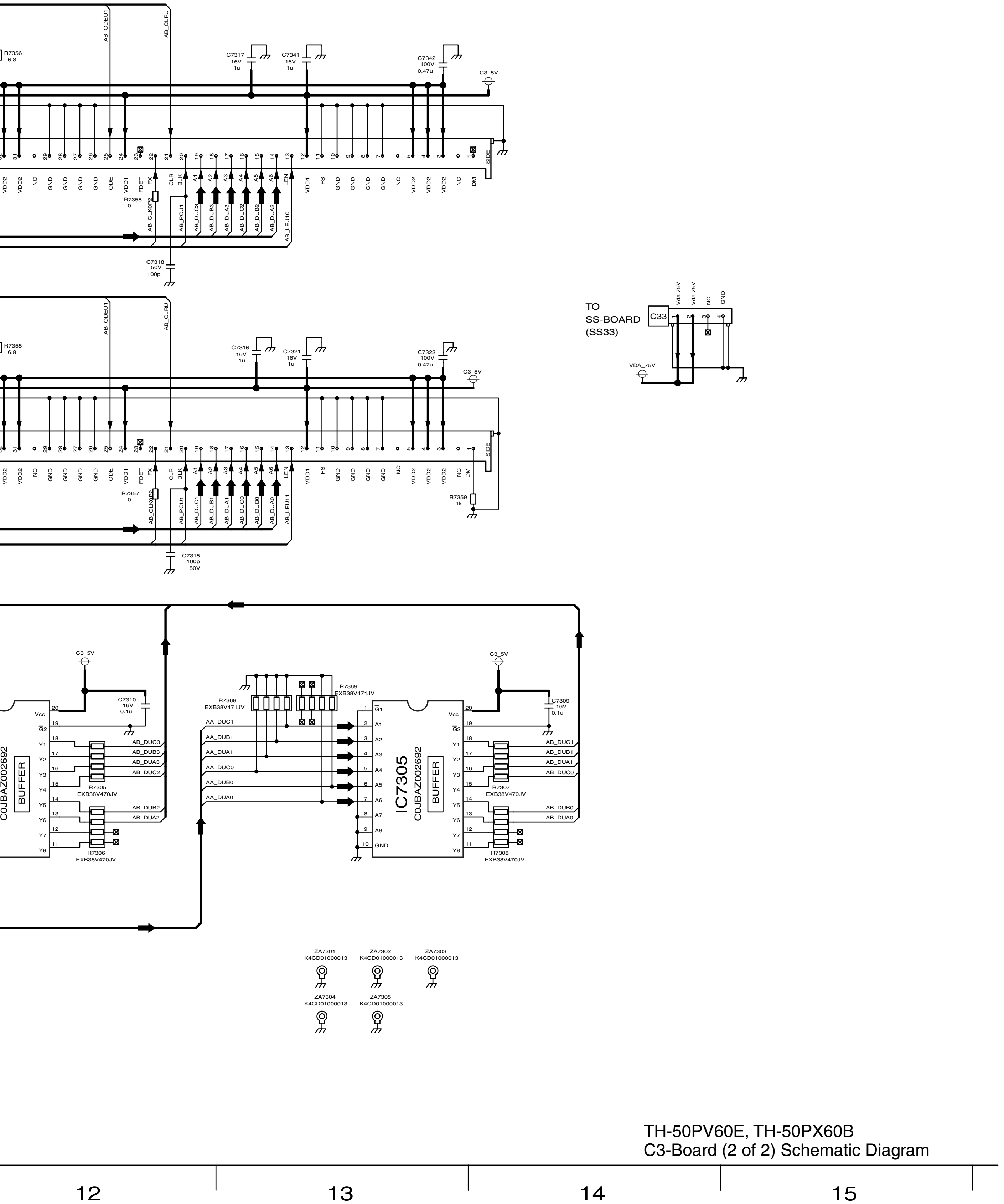
TH-50PV60E, TH-50PX60B
C3-Board (1 of 2) Schematic Diagram


VDA_75V
R7338 6.8
R7340 6.8
R7342 6.8
R7344 6.8
AB_ODEU1
AB_CLRU
C7312 16V 1u
C7333 16V 1u
C7334 100V 0.47u
GND GND GND GND NC VDD2 VDD2 VDD2 NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2 VDD2 NC DM
SIDE
R7346 0
AB_PCU1
AB_DUC7
AB_DUB7
AB_DUA7
AB_DUC6
AB_DUB6
AB_DUA6
AB_LEU8
C7314 50V 100p
AB_CLK0P1
R7337 6.8
R7339 6.8
R7341 6.8
R7343 6.8
C7311 16V 1u
C7337 16V 1u
C7338 100V 0.47u
C3_5V
R7345 0
AB_DUC5
AB_DUB5
AB_DUA5
AB_DUC4
AB_DUB4
AB_DUA4
AB_LEU9
C7313 50V 100p
AB_PCU1
R7362 EXB38V471JV
R7363 EXB38V471JV
AA_DUC7
AA_DUB7
AA_DUA7
AA_DUC6
AA_DUB6
AA_DUA6
IC7302
C0JBAZ002692
BUFFER
G1 A1 A2 A3 A4 A5 A6 A7 A8 GND
Vcc G2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
C7306 16V 0.1u
R7301 EXB38V470JV
R7302 EXB38V470JV
AB_DUC7
AB_DUB7
AB_DUA7
AB_DUC6
AB_DUB6
AB_DUA6
AB_ODEU1
AB_CLRU
AA_DUC3 AA_DUB3 AA_DUA3 AA_DUC2 AA_DUB2 AA_DUA2 AA_DUC1 AA_DUB1 AA_DUA1 AA_DUC0 AA_DUB0 AA_DUA0 AA_ODEU1 AA_CLRU AA_PCU1 AA_LEU AA_CLK1N AA_CLK0P
R7361 22k
R7360 100k
TERM
GND DOUTUC[3] DOUTUB[3] DOUTUA[3] DOUTUC[2] DOUTUB[2] DOUTUA[2] GND DOUTUC[1] DOUTUB[1] DOUTUA[1] DOUTUC[0] DOUTUB[0] DOUTUA[0] GND ODEU1 CLRU PCU1 LEU GND CLK[1](-) GND CLK[0](+) GND GND GND 5V_DET
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
4
5
6
7
8

TH-50PV60E, TH-50PX60B
C3-Board (1 of 2) Schematic Diagram

14.52. C3-Board (2 of 2) Schematic Diagram

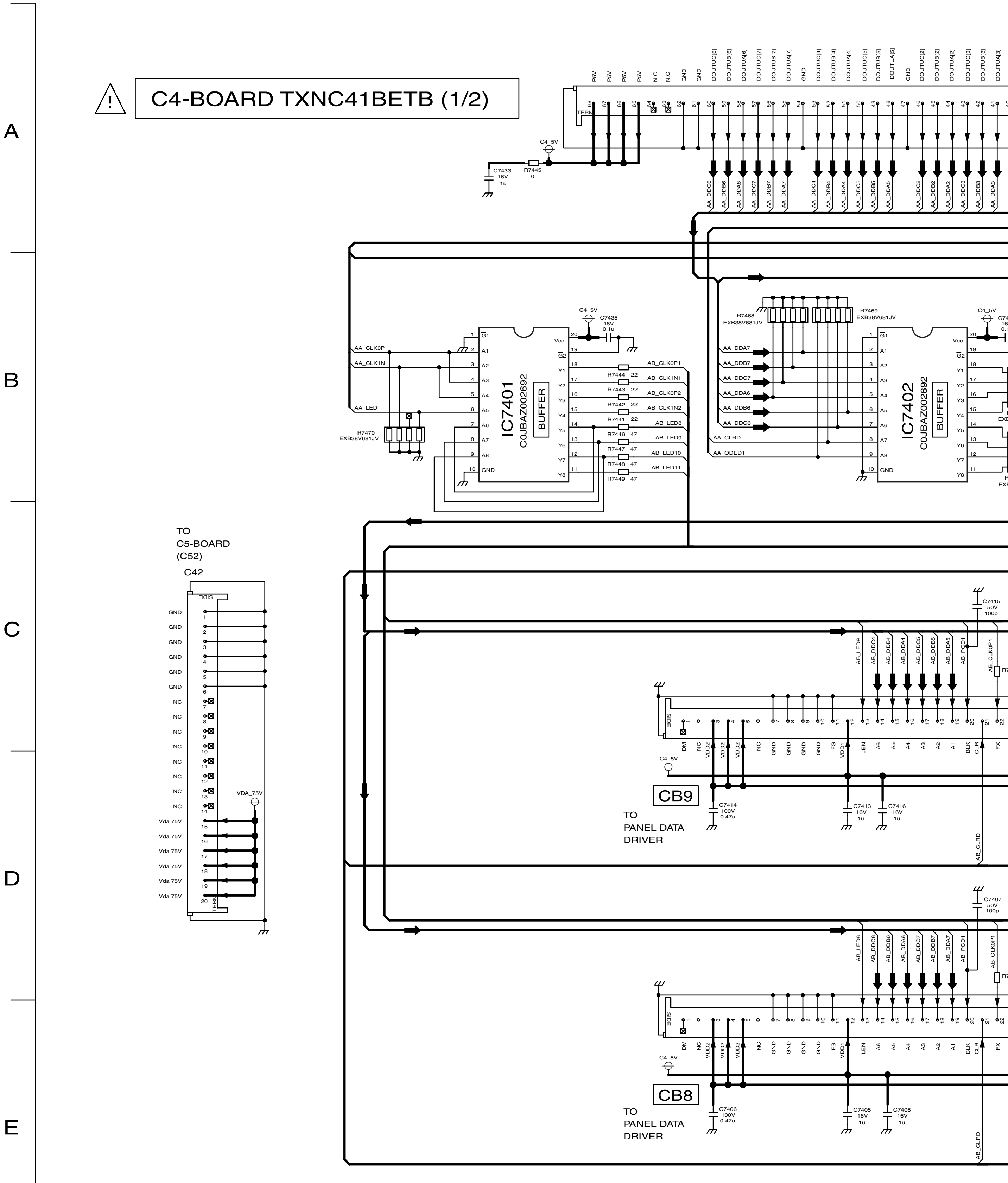

C3-BOARD TXNC31BETB (2/2)
TO PANEL DATA DRIVER
CA10
CA11
C7339 100V 0.47u
C7319 100V 0.47u
AB_ODEU1
AB_CLRU
VDA_75V
R7350 6.8
R7352 6.8
R7354 6.8
R7356 6.8
R7349 6.8
R7351 6.8
R7353 6.8
R7355 6.8
TERM
DM
NC
VDD2
GND
ODE
VDD1
FX
CLR
BLK
LEN
FS
FDET1
R7348 0
R7347 0
AB_CLK1N2
AB_PCU1
AB_DUC3
AB_DUB3
AB_DUA3
AB_DUC2
AB_DUB2
AB_DUA2
AB_LEU10
AB_DUC1
AB_DUB1
AB_DUA1
AB_DUC0
AB_DUB0
AB_DUA0
AB_LEU11
C3_5V
R7364 EXB38V471JV
R7365 EXB38V471JV
R7366 EXB38V471JV
R7367 EXB38V471JV
AA_DUC5
AA_DUB5
AA_DUA5
AA_DUC4
AA_DUB4
AA_DUA4
AA_DUC3
AA_DUB3
AA_DUA3
AA_DUC2
AA_DUB2
AA_DUA2
AA_PCU1
IC7303
IC7304
C0JBAZ002692
BUFFER
G1
G2
Vcc
GND
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C7307 16V 0.1u
AB_DUC5
AB_DUB5
AB_DUA5
AB_DUC4
AB_DUB4
AB_DUA4
R7303 EXB38V470JV
R7304 EXB38V470JV
R7305 EXB38V470
R7306 EXB38V470
R7332 0
1
2
3
4
5
6
7
8
9
10



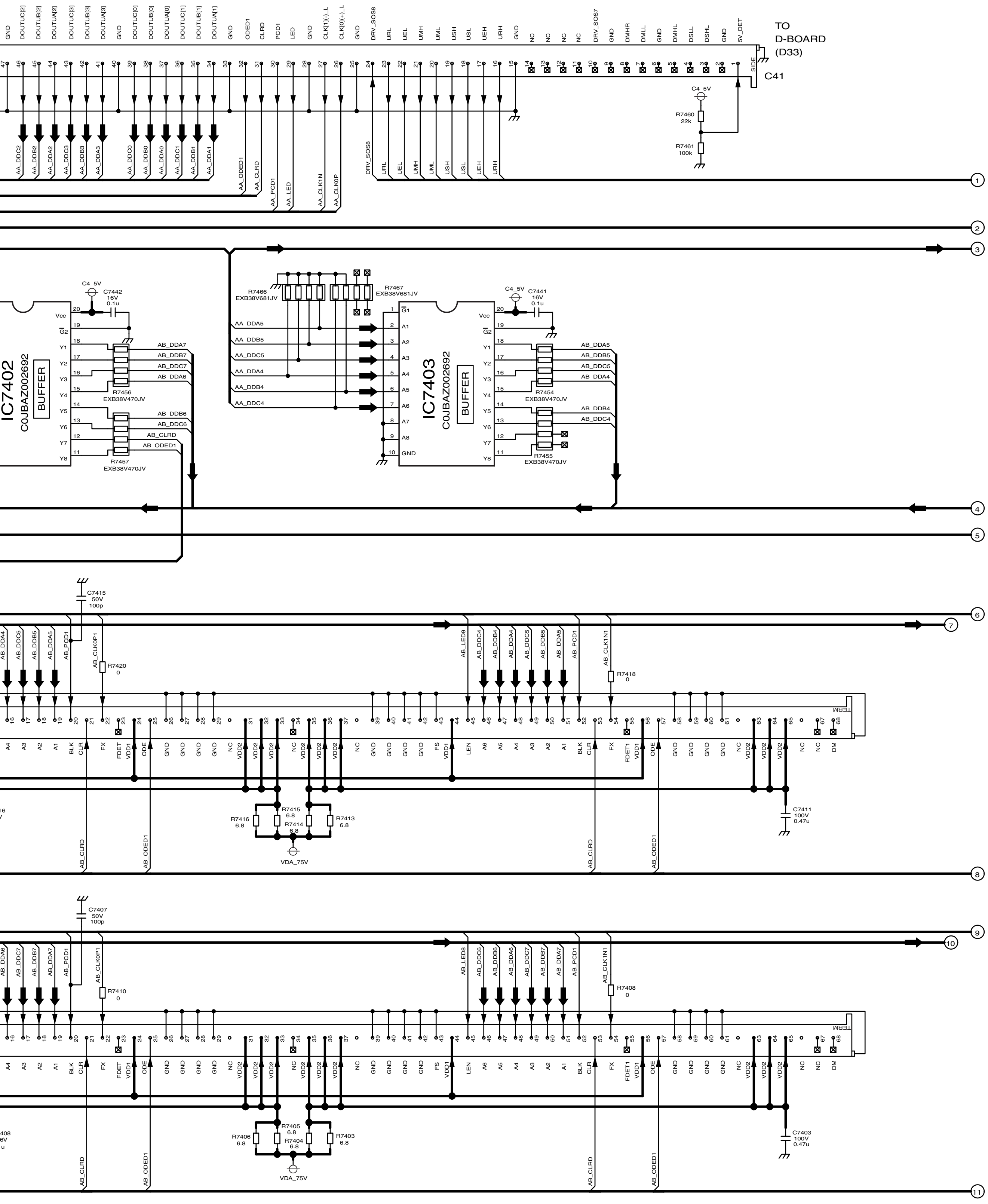
AB_ODEU1
AB_CLRU
R7356
6.8
R7355
6.8
C7317
16V
1u
C7341
16V
1u
C7342
100V
0.47u
C7316
16V
1u
C7321
16V
1u
C7322
100V
0.47u
C3_5V
VDD2
NC
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
DM
SIDE
R7358
0
R7357
0
R7359
1k
AB_CLK0P2
AB_PCU1
AB_DUC3
AB_DUB3
AB_DUA3
AB_DUC2
AB_DUB2
AB_DUA2
AB_LEU10
AB_DUC1
AB_DUB1
AB_DUA1
AB_DUC0
AB_DUB0
AB_DUA0
AB_LEU11
C7318
50V
100p
C7315
100p
50V
TO
SS-BOARD
(SS33)
C33
Vda 75V
Vda 75V
NC
GND
VDA_75V
C7310
16V
0.1u
C7309
16V
0.1u
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C0JBAZ002692
BUFFER
R7305
EXB38V470JV
R7306
EXB38V470JV
R7307
EXB38V470JV
R7308
EXB38V470JV
R7368
EXB38V471JV
R7369
EXB38V471JV
AA_DUC1
AA_DUB1
AA_DUA1
AA_DUC0
AA_DUB0
AA_DUA0
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
IC7305
ZA7301
K4CD01000013
ZA7302
K4CD01000013
ZA7303
K4CD01000013
ZA7304
K4CD01000013
ZA7305
K4CD01000013
12
13
14
15

TH-50PV60E, TH-50PX60B
C3-Board (2 of 2) Schematic Diagram

14.53. C4-Board (1 of 2) Schematic Diagram


C4-BOARD TXNC41BETB (1/2)
A
B
C
D
E
C4_5V
C7433 16V 1u
R7445 0
TERM
P5V
N.C
GND
DOUTUC[6]
DOUTUB[6]
DOUTUA[6]
DOUTUC[7]
DOUTUB[7]
DOUTUA[7]
DOUTUC[4]
DOUTUB[4]
DOUTUA[4]
DOUTUC[5]
DOUTUB[5]
DOUTUA[5]
DOUTUC[2]
DOUTUB[2]
DOUTUA[2]
DOUTUC[3]
DOUTUB[3]
DOUTUA[3]
AA_DDC6
AA_DDB6
AA_DDA6
AA_DDC7
AA_DDB7
AA_DDA7
AA_DDC4
AA_DDB4
AA_DDA4
AA_DDC5
AA_DDB5
AA_DDA5
AA_DDC2
AA_DDB2
AA_DDA2
AA_DDC3
AA_DDB3
AA_DDA3
IC7401
C0JBAZ002692
BUFFER
C7435 16V 0.1u
AA_CLK0P
AA_CLK1N
AA_LED
R7470 EXB38V681JV
R7444 22
R7443 22
R7442 22
R7441 22
R7446 47
R7447 47
R7448 47
R7449 47
AB_CLK0P1
AB_CLK1N1
AB_CLK0P2
AB_CLK1N2
AB_LED8
AB_LED9
AB_LED10
AB_LED11
IC7402
C0JBAZ002692
BUFFER
R7468 EXB38V681JV
R7469 EXB38V681JV
AA_CLRD
AA_ODED1
TO
C5-BOARD
(C52)
C42
SIDE
NC
Vda 75V
VDA_75V
C7415 50V 100p
AB_LED9
AB_DDC4
AB_DDB4
AB_DDA4
AB_DDC5
AB_DDB5
AB_DDA5
AB_PCD1
AB_CLK0P1
DM
VDD2
FS
VDD1
LEN
BLK
CLR
FX
CB9
TO
PANEL DATA
DRIVER
C7414 100V 0.47u
C7413 16V 1u
C7416 16V 1u
AB_CLRD
C7407 50V 100p
AB_LED8
AB_DDC6
AB_DDB6
AB_DDA6
AB_DDC7
AB_DDB7
AB_DDA7
CB8
C7406 100V 0.47u
C7405 16V 1u
C7408 16V 1u
1
2
3
4

TH-50PV60E, TH-50PX60B
C4-Board (1 of 2) Schematic Diagram

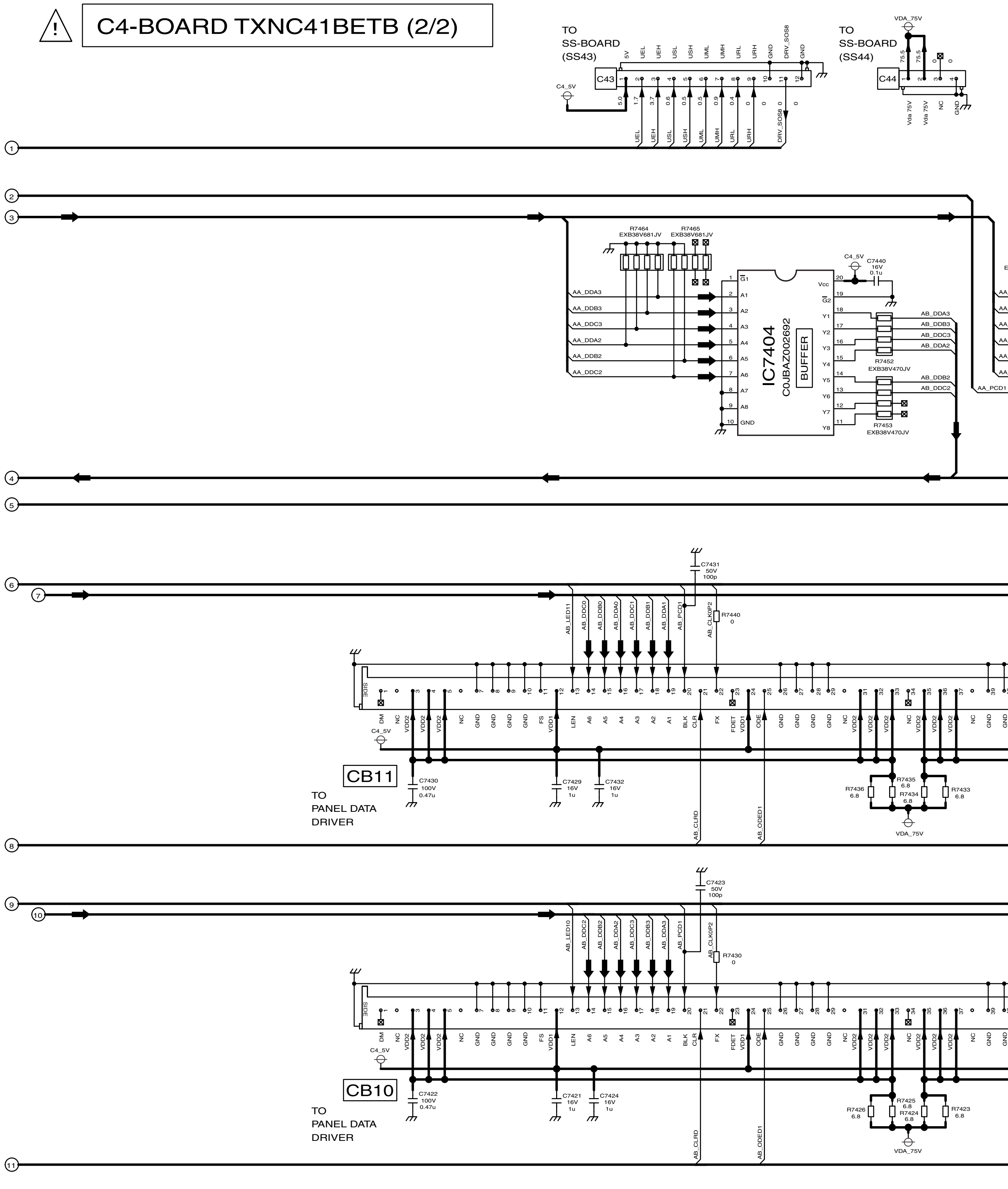


TO
D-BOARD
(D33)
C41
SIDE
C4_5V
R7460
22k
R7461
100k
DRV_SOS8
URL
UEL
UMH
UML
USH
USL
UEH
URH
AA_DDC2
AA_DDB2
AA_DDA2
AA_DDC3
AA_DDB3
AA_DDA3
AA_DDC0
AA_DDB0
AA_DDA0
AA_DDC1
AA_DDB1
AA_DDA1
AA_ODED1
AA_CLRD
AA_PCD1
AA_LED
AA_CLK1N
AA_CLK0P
GND
DOUTUC[2]
DOUTUB[2]
DOUTUA[2]
DOUTUC[3]
DOUTUB[3]
DOUTUA[3]
DOUTUC[0]
DOUTUB[0]
DOUTUA[0]
DOUTUC[1]
DOUTUB[1]
DOUTUA[1]
ODED1
CLRD
PCD1
LED
CLK[1](-)_L
CLK[0](+)_L
DRV_SOS7
DMHR
DMLL
DMHL
DSLL
DSHL
5V_DET
NC
IC7402
C0JBAZ002692
BUFFER
C7442
16V
0.1u
R7456
EXB38V470JV
R7457
EXB38V470JV
AB_DDA7
AB_DDB7
AB_DDC7
AB_DDA6
AB_DDB6
AB_DDC6
AB_CLRD
AB_ODED1
IC7403
C0JBAZ002692
BUFFER
R7466
EXB38V681JV
R7467
EXB38V681JV
AA_DDA5
AA_DDB5
AA_DDC5
AA_DDA4
AA_DDB4
AA_DDC4
C7441
16V
0.1u
R7454
EXB38V470JV
R7455
EXB38V470JV
AB_DDA5
AB_DDB5
AB_DDC5
AB_DDA4
AB_DDB4
AB_DDC4
Vcc
G1
G2
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C7415
50V
100p
R7420
0
R7418
0
AB_LED9
AB_PCD1
AB_CLK0P1
AB_CLK1N1
TERM
R7416
6.8
R7415
6.8
R7414
6.8
R7413
6.8
VDA_75V
C7411
100V
0.47u
AB_CLRD
AB_ODED1
C7407
50V
100p
R7410
0
R7408
0
AB_LED8
R7406
6.8
R7405
6.8
R7404
6.8
R7403
6.8
C7403
100V
0.47u
BLK
CLR
FX
FDET
VDD1
ODE
VDD2
FS
LEN
DM
1
2
3
4
5
6
7
8
9
10
11

TH-50PV60E, TH-50PX60B
C4-Board (1 of 2) Schematic Diagram

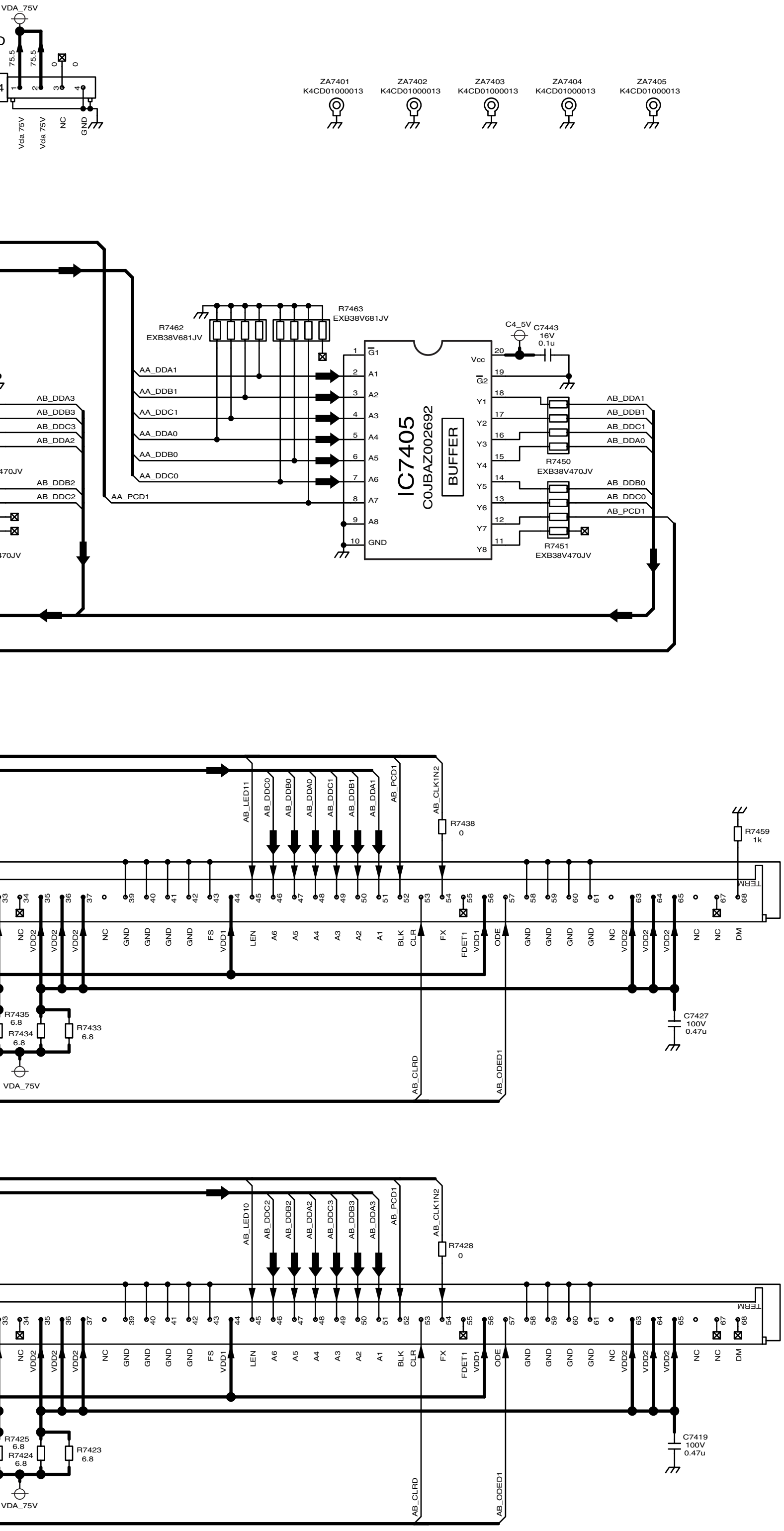
4 5 6 7 8

14.54. C4-Board (2 of 2) Schematic Diagram



C4-BOARD TXNC41BETB (2/2)
TO SS-BOARD (SS43)
C43
5V
UEL
UEH
USL
USH
UML
UMH
URL
URH
GND
DRV_SOS8
C4_5V
TO SS-BOARD (SS44)
C44
VDA_75V
Vda 75V
NC
GND
R7464 EXB38V681JV
R7465 EXB38V681JV
C4_5V
C7440 16V 0.1u
AA_DDA3
AA_DDB3
AA_DDC3
AA_DDA2
AA_DDB2
AA_DDC2
IC7404
C0JBAZ002692
BUFFER
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
R7452 EXB38V470JV
R7453 EXB38V470JV
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
AA_PCD1
C7431 50V 100p
AB_LED11
AB_DDC0
AB_DDB0
AB_DDA0
AB_DDC1
AB_DDB1
AB_DDA1
AB_PCD1
AB_CLK0P2
R7440 0
SIDE
DM
NC
VDD2
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
ODE
CB11
TO PANEL DATA DRIVER
C7430 100V 0.47u
C7429 16V 1u
C7432 16V 1u
R7436 6.8
R7435 6.8
R7434 6.8
R7433 6.8
AB_CLRD
AB_ODED1
C7423 50V 100p
AB_LED10
AB_DDC2
AB_DDB2
AB_DDA2
AB_DDC3
AB_DDB3
AB_DDA3
R7430 0
CB10
C7422 100V 0.47u
C7421 16V 1u
C7424 16V 1u
R7426 6.8
R7425 6.8
R7424 6.8
R7423 6.8
1
2
3
4
5
6
7
8
9
10
11

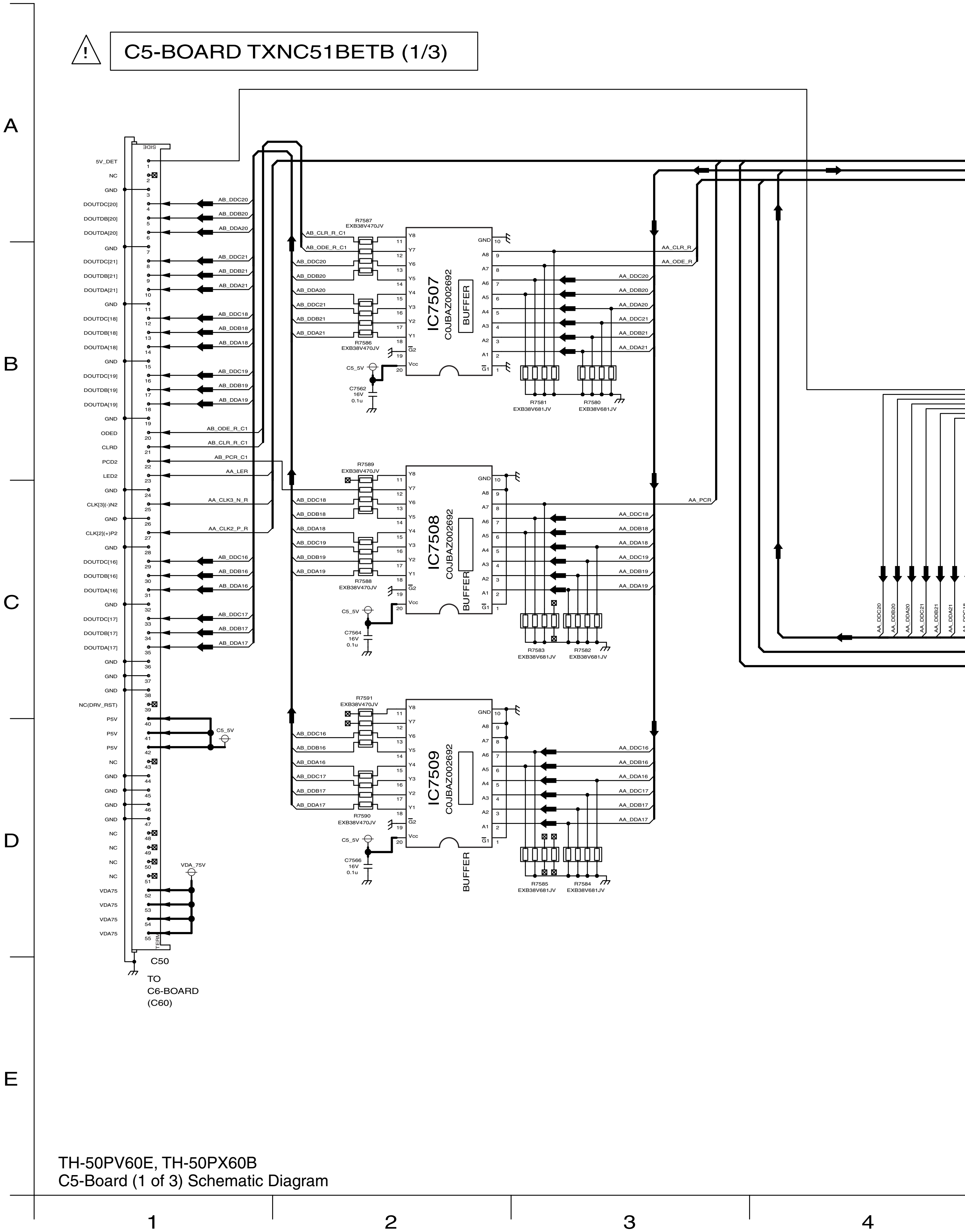
TH-50PV60E, TH-50PX60B
C4-Board (2 of 2) Schematic Diagram


VDA_75V
Vda 75V
Vda 75V
NC
GND
ZA7401
K4CD01000013
ZA7402
K4CD01000013
ZA7403
K4CD01000013
ZA7404
K4CD01000013
ZA7405
K4CD01000013
R7462
EXB38V681JV
R7463
EXB38V681JV
C4_5V
C7443
16V
0.1u
IC7405
C0JBAZ002692
BUFFER
G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
AA_DDA1
AA_DDB1
AA_DDC1
AA_DDA0
AA_DDB0
AA_DDC0
AA_PCD1
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
AB_PCD1
R7450
EXB38V470JV
R7451
EXB38V470JV
AB_LED11
AB_CLK1N2
R7438
0
R7459
1k
TERM
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET1
VDD1
ODE
VDD2
FS
DM
C7427
100V
0.47u
R7435
6.8
R7434
6.8
R7433
6.8
AB_CLRD
AB_ODED1
AB_LED10
R7428
0
C7419
100V
0.47u
R7425
6.8
R7424
6.8
R7423
6.8

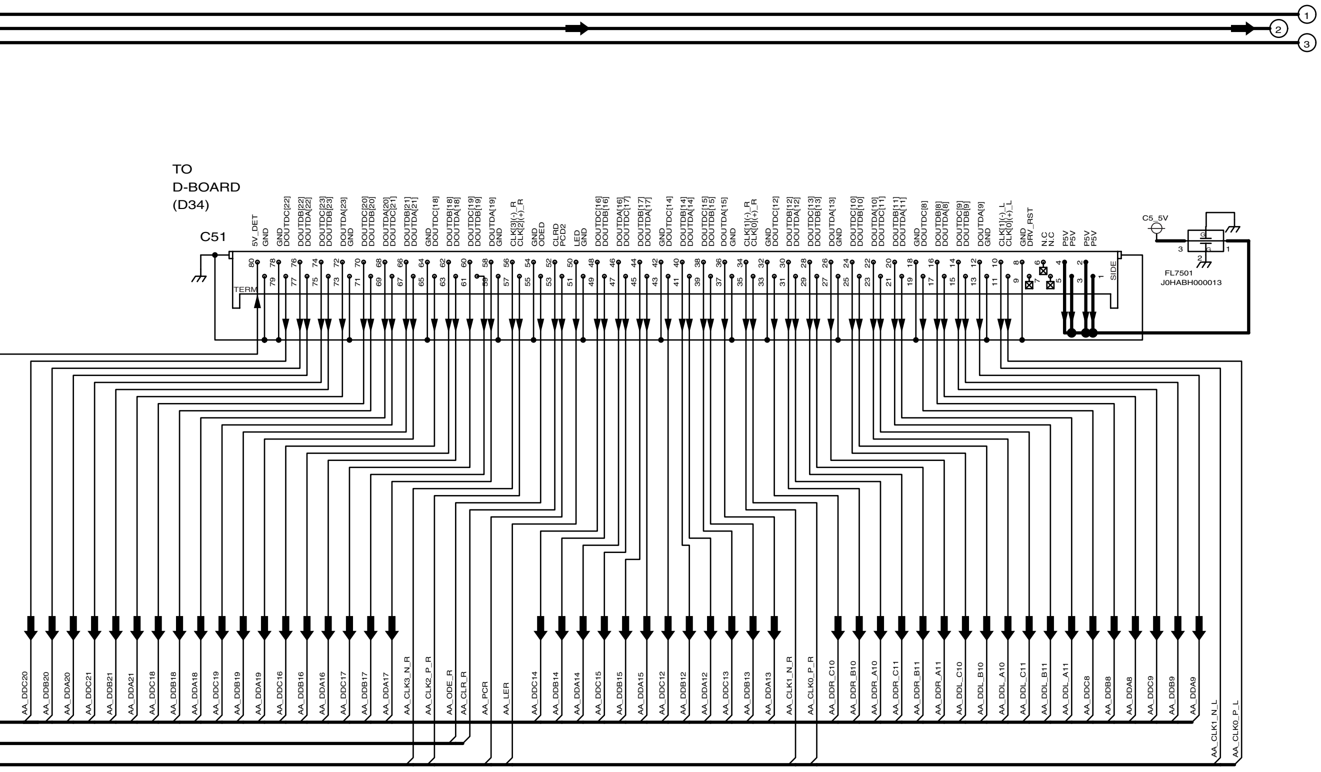
TH-50PV60E, TH-50PX60B
C4-Board (2 of 2) Schematic Diagram

12 13 14 15

14.55. C5-Board (1 of 3) Schematic Diagram


C5-BOARD TXNC51BETB (1/3)
A
B
C
D
E
1
2
3
4
SIDE
5V_DET 1
NC 2
GND 3
DOUTDC[20] 4
DOUTDB[20] 5
DOUTDA[20] 6
GND 7
DOUTDC[21] 8
DOUTDB[21] 9
DOUTDA[21] 10
GND 11
DOUTDC[18] 12
DOUTDB[18] 13
DOUTDA[18] 14
GND 15
DOUTDC[19] 16
DOUTDB[19] 17
DOUTDA[19] 18
GND 19
ODED 20
CLRD 21
PCD2 22
LED2 23
GND 24
CLK[3](-)N2 25
GND 26
CLK[2](+)P2 27
GND 28
DOUTDC[16] 29
DOUTDB[16] 30
DOUTDA[16] 31
GND 32
DOUTDC[17] 33
DOUTDB[17] 34
DOUTDA[17] 35
GND 36
GND 37
GND 38
NC(DRV_RST) 39
P5V 40
P5V 41
P5V 42
NC 43
GND 44
GND 45
GND 46
GND 47
NC 48
NC 49
NC 50
NC 51
VDA75 52
VDA75 53
VDA75 54
VDA75 55
TERM
C50
TO
C6-BOARD
(C60)
C5_5V
VDA_75V
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
AB_ODE_R_C1
AB_CLR_R_C1
AB_PCR_C1
AA_LER
AA_CLK3_N_R
AA_CLK2_P_R
AB_DDC16
AB_DDB16
AB_DDA16
AB_DDC17
AB_DDB17
AB_DDA17
R7587
EXB38V470JV
R7586
EXB38V470JV
IC7507
C0JBAZ002692
BUFFER
C7562
16V
0.1u
R7581
EXB38V681JV
R7580
EXB38V681JV
AA_CLR_R
AA_ODE_R
AA_DDC20
AA_DDB20
AA_DDA20
AA_DDC21
AA_DDB21
AA_DDA21
R7589
EXB38V470JV
R7588
EXB38V470JV
IC7508
C0JBAZ002692
BUFFER
C7564
16V
0.1u
R7583
EXB38V681JV
R7582
EXB38V681JV
AA_PCR
AA_DDC18
AA_DDB18
AA_DDA18
AA_DDC19
AA_DDB19
AA_DDA19
R7591
EXB38V470JV
R7590
EXB38V470JV
IC7509
C0JBAZ002692
BUFFER
C7566
16V
0.1u
R7585
EXB38V681JV
R7584
EXB38V681JV
AA_DDC16
AA_DDB16
AA_DDA16
AA_DDC17
AA_DDB17
AA_DDA17
Y8 11
Y7 12
Y6 13
Y5 14
Y4 15
Y3 16
Y2 17
Y1 18
G2 19
Vcc 20
GND 10
A8 9
A7 8
A6 7
A5 6
A4 5
A3 4
A2 3
A1 2
G1 1
AA_DDC20
AA_DDB20
AA_DDA20
AA_DDC21
AA_DDB21
AA_DDA21

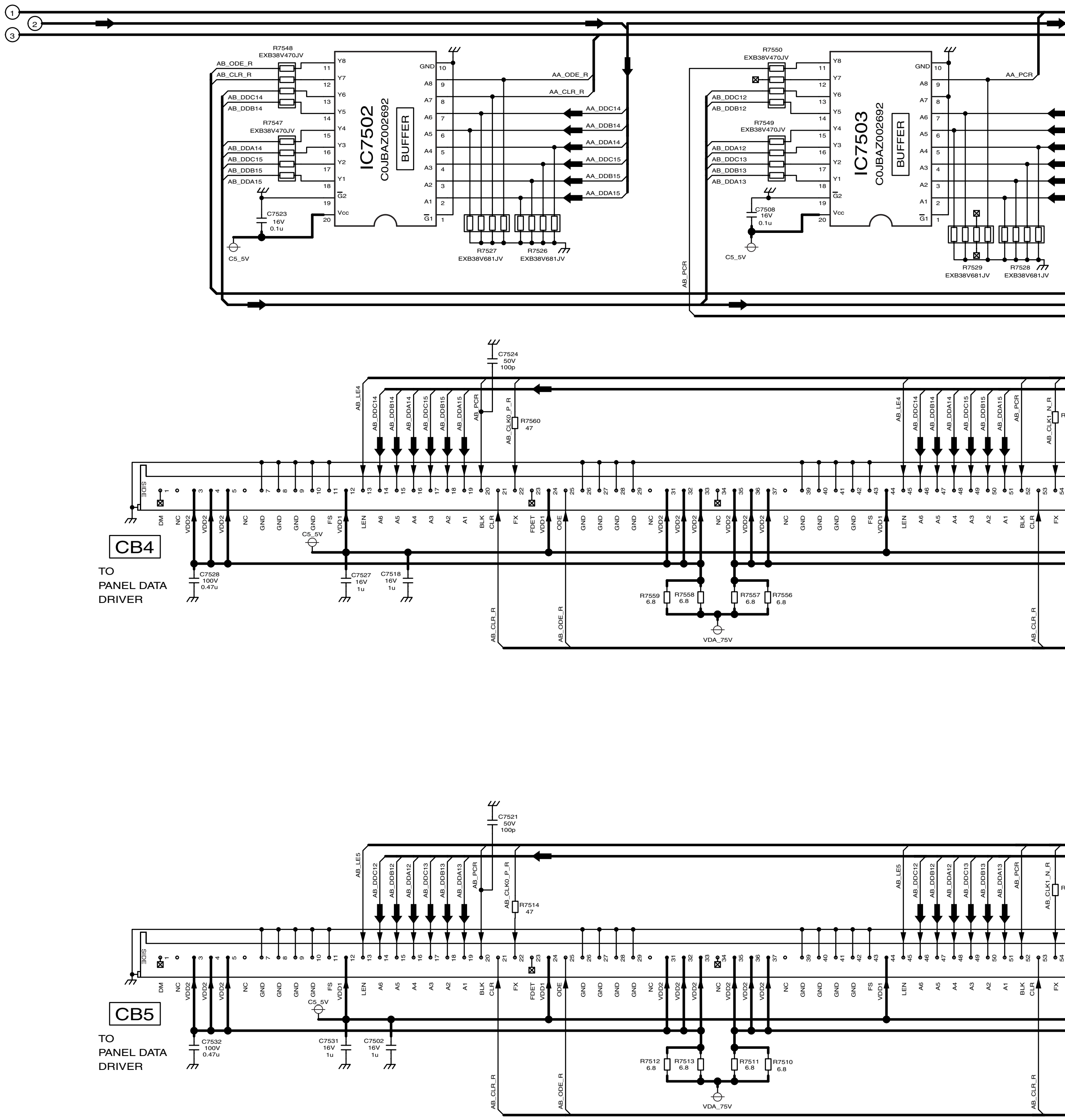
TH-50PV60E, TH-50PX60B
C5-Board (1 of 3) Schematic Diagram


①
②
③
TO
D-BOARD
(D34)
C51
5V_DET
GND
GND
DOUTDC[22]
DOUTDB[22]
DOUTDA[22]
DOUTDC[23]
DOUTDB[23]
DOUTDA[23]
GND
DOUTDC[20]
DOUTDB[20]
DOUTDA[20]
DOUTDC[21]
DOUTDB[21]
DOUTDA[21]
GND
DOUTDC[18]
DOUTDB[18]
DOUTDA[18]
DOUTDC[19]
DOUTDB[19]
DOUTDA[19]
GND
CLK[3](-)_R
CLK[2](+)_R
GND
ODED
CLRD
PCD2
LED
GND
DOUTDC[16]
DOUTDB[16]
DOUTDA[16]
DOUTDC[17]
DOUTDB[17]
DOUTDA[17]
GND
DOUTDC[14]
DOUTDB[14]
DOUTDA[14]
DOUTDC[15]
DOUTDB[15]
DOUTDA[15]
GND
CLK[1](-)_R
CLK[0](+)_R
GND
DOUTDC[12]
DOUTDB[12]
DOUTDA[12]
DOUTDC[13]
DOUTDB[13]
DOUTDA[13]
GND
DOUTDC[10]
DOUTDB[10]
DOUTDA[10]
DOUTDC[11]
DOUTDB[11]
DOUTDA[11]
GND
DOUTDC[8]
DOUTDB[8]
DOUTDA[8]
DOUTDC[9]
DOUTDB[9]
DOUTDA[9]
GND
CLK[1](-)_L
CLK[0](+)_L
GND
DRV_RST
N.C
N.C
P5V
P5V
P5V
P5V
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
TERM
SIDE
C5_5V
3
1
2
G
G
FL7501
J0HABH000013
AA_DDC20
AA_DDB20
AA_DDA20
AA_DDC21
AA_DDB21
AA_DDA21
AA_DDC18
AA_DDB18
AA_DDA18
AA_DDC19
AA_DDB19
AA_DDA19
AA_DDC16
AA_DDB16
AA_DDA16
AA_DDC17
AA_DDB17
AA_DDA17
AA_CLK3_N_R
AA_CLK2_P_R
AA_ODE_R
AA_CLR_R
AA_PCR
AA_LER
AA_DDC14
AA_DDB14
AA_DDA14
AA_DDC15
AA_DDB15
AA_DDA15
AA_DDC12
AA_DDB12
AA_DDA12
AA_DDC13
AA_DDB13
AA_DDA13
AA_CLK1_N_R
AA_CLK0_P_R
AA_DDR_C10
AA_DDR_B10
AA_DDR_A10
AA_DDR_C11
AA_DDR_B11
AA_DDR_A11
AA_DDL_C10
AA_DDL_B10
AA_DDL_A10
AA_DDL_C11
AA_DDL_B11
AA_DDL_A11
AA_DDC8
AA_DDB8
AA_DDA8
AA_DDC9
AA_DDB9
AA_DDA9
AA_CLK1_N_L
AA_CLK0_P_L

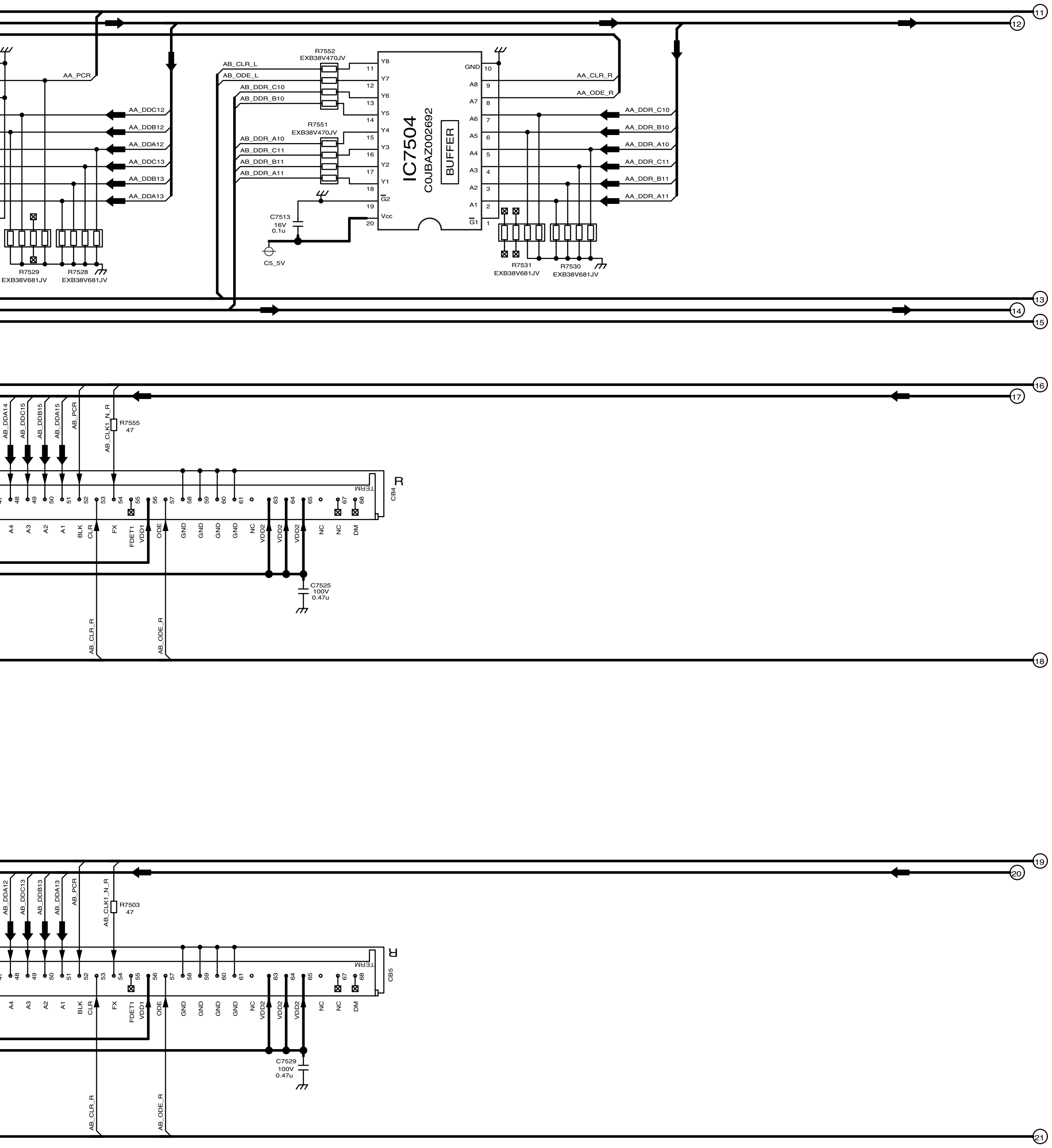
TH-50PV60E, TH-50PX60B
C5-Board (1 of 3) Schematic Diagram

14.56. C5-Board (2 of 3) Schematic Diagram

⚠ C5-BOARD TXNC51BETB (2/3)


1
2
3
R7548
EXB38V470JV
AB_ODE_R
AB_CLR_R
AB_DDC14
AB_DDB14
R7547
EXB38V470JV
AB_DDA14
AB_DDC15
AB_DDB15
AB_DDA15
IC7502
C0JBAZ002692
BUFFER
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
AA_ODE_R
AA_CLR_R
AA_DDC14
AA_DDB14
AA_DDA14
AA_DDC15
AA_DDB15
AA_DDA15
C7523
16V
0.1u
C5_5V
R7527
EXB38V681JV
R7526
EXB38V681JV
R7550
EXB38V470JV
AB_DDC12
AB_DDB12
R7549
EXB38V470JV
AB_DDA12
AB_DDC13
AB_DDB13
AB_DDA13
IC7503
C0JBAZ002692
BUFFER
AA_PCR
C7508
16V
0.1u
C5_5V
AB_PCR
R7529
EXB38V681JV
R7528
EXB38V681JV
C7524
50V
100p
AB_LE4
AB_DDC14
AB_DDB14
AB_DDA14
AB_DDC15
AB_DDB15
AB_DDA15
AB_PCR
AB_CLK0_P_R
R7560
47
AB_CLK1_N_R
SIDE
DM
NC
VDD2
NC
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
ODE
CB4
TO
PANEL DATA
DRIVER
C7528
100V
0.47u
C5_5V
C7527
16V
1u
C7518
16V
1u
R7559
6.8
R7558
6.8
R7557
6.8
R7556
6.8
VDA_75V
AB_CLR_R
AB_ODE_R
C7521
50V
100p
AB_LE5
AB_DDC12
AB_DDB12
AB_DDA12
AB_DDC13
AB_DDB13
AB_DDA13
AB_PCR
AB_CLK0_P_R
R7514
47
CB5
TO
PANEL DATA
DRIVER
C7532
100V
0.47u
C7531
16V
1u
C7502
16V
1u
R7512
6.8
R7513
6.8
R7511
6.8
R7510
6.8
VDA_75V

TH-50PV60E, TH-50PX60B
C5-Board (2 of 3) Schematic Diagram

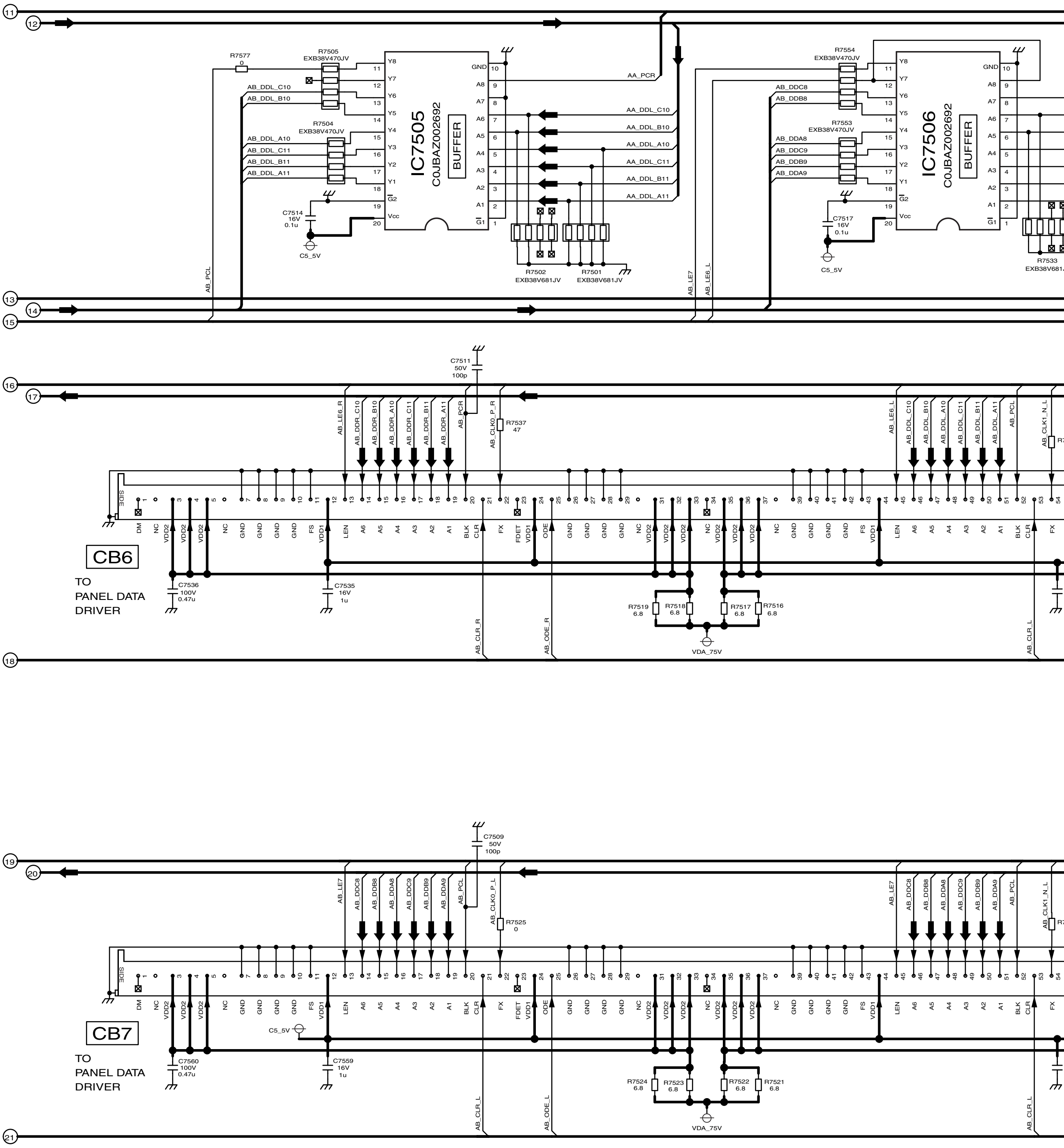

R7552
EXB38V470JV
AB_CLR_L
AB_ODE_L
AB_DDR_C10
AB_DDR_B10
R7551
EXB38V470JV
AB_DDR_A10
AB_DDR_C11
AB_DDR_B11
AB_DDR_A11
IC7504
C0JBAZ002692
BUFFER
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
C7513
16V
0.1u
C5_5V
AA_CLR_R
AA_ODE_R
AA_DDR_C10
AA_DDR_B10
AA_DDR_A10
AA_DDR_C11
AA_DDR_B11
AA_DDR_A11
R7531
EXB38V681JV
R7530
EXB38V681JV
AA_PCR
AA_DDC12
AA_DDB12
AA_DDA12
AA_DDC13
AA_DDB13
AA_DDA13
R7529
EXB38V681JV
R7528
EXB38V681JV
AB_DDA14
AB_DDC15
AB_DDB15
AB_DDA15
AB_PCR
AB_CLK1_N_R
R7555
47
TERM
CB4
R
A4
A3
A2
A1
BLK
CLR
FX
FDET1
VDD1
ODE
GND
NC
VDD2
DM
C7525
100V
0.47u
AB_CLR_R
AB_ODE_R
AB_DDA12
AB_DDC13
AB_DDB13
AB_DDA13
AB_PCR
AB_CLK1_N_R
R7503
47
CB5
C7529
100V
0.47u
AB_CLR_R
AB_ODE_R
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑

TH-50PV60E, TH-50PX60B
C5-Board (2 of 3) Schematic Diagram

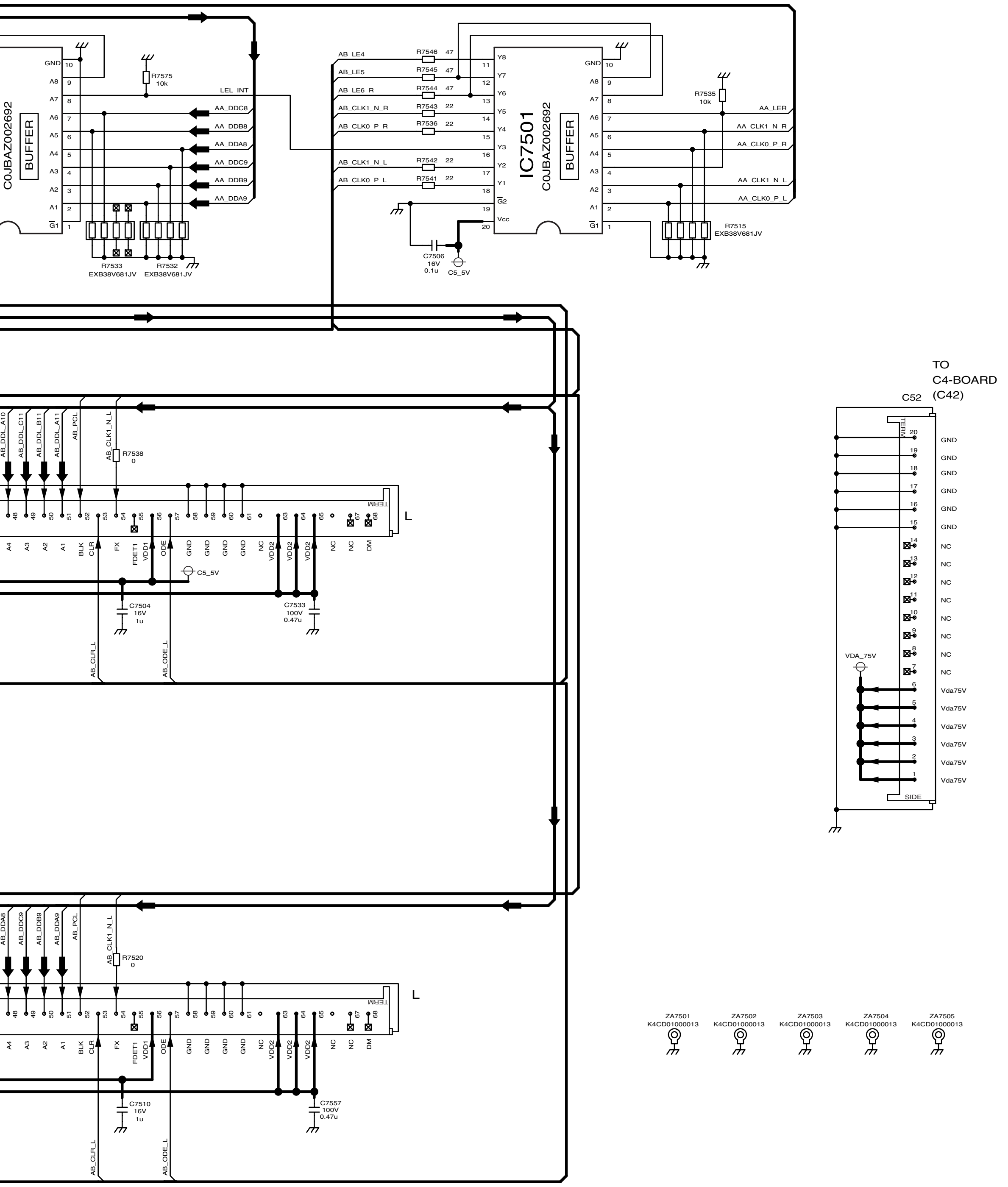
12	13	14	15

14.57. C5-Board (3 of 3) Schematic Diagram

⚠ C5-BOARD TXNC51BETB (3/3)



IC7505
C0JBAZ002692
BUFFER
IC7506
C0JBAZ002692
BUFFER
R7577
0
R7505
EXB38V470JV
R7504
EXB38V470JV
C7514
16V
0.1u
C5_5V
R7502
EXB38V681JV
R7501
EXB38V681JV
AB_DDL_C10
AB_DDL_B10
AB_DDL_A10
AB_DDL_C11
AB_DDL_B11
AB_DDL_A11
AA_PCR
AA_DDL_C10
AA_DDL_B10
AA_DDL_A10
AA_DDL_C11
AA_DDL_B11
AA_DDL_A11
AB_PCL
AB_LE7
AB_LE6_L
R7554
EXB38V470JV
R7553
EXB38V470JV
AB_DDC8
AB_DDB8
AB_DDA8
AB_DDC9
AB_DDB9
AB_DDA9
C7517
16V
0.1u
R7533
C7511
50V
100p
AB_LE6_R
AB_DDR_C10
AB_DDR_B10
AB_DDR_A10
AB_DDR_C11
AB_DDR_B11
AB_DDR_A11
AB_PCR
AB_CLK0_P_R
R7537
47
AB_CLK1_N_L
CB6
TO
PANEL DATA
DRIVER
C7536
100V
0.47u
C7535
16V
1u
R7519
6.8
R7518
6.8
R7517
6.8
R7516
6.8
VDA_75V
AB_CLR_R
AB_ODE_R
AB_CLR_L
C7509
50V
100p
AB_CLK0_P_L
R7525
0
CB7
TO
PANEL DATA
DRIVER
C7560
100V
0.47u
C7559
16V
1u
R7524
6.8
R7523
6.8
R7522
6.8
R7521
6.8
AB_CLR_L
AB_ODE_L
DM
NC
VDD2
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
ODE
SIDE
11
12
13
14
15
16
17
18
19
20
21


C0JBAZ002692
BUFFER
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
R7575
10k
LEL_INT
AA_DDC8
AA_DDB8
AA_DDA8
AA_DDC9
AA_DDB9
AA_DDA9
R7533
EXB38V681JV
R7532
EXB38V681JV
AB_LE4
AB_LE5
AB_LE6_R
AB_CLK1_N_R
AB_CLK0_P_R
AB_CLK1_N_L
AB_CLK0_P_L
R7546 47
R7545 47
R7544 47
R7543 22
R7536 22
R7542 22
R7541 22
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
IC7501
C0JBAZ002692
BUFFER
C7506
16V
0.1u
C5_5V
R7535
10k
AA_LER
AA_CLK1_N_R
AA_CLK0_P_R
AA_CLK1_N_L
AA_CLK0_P_L
R7515
EXB38V681JV
AB_DDL_A10
AB_DDL_C11
AB_DDL_B11
AB_DDL_A11
AB_PCL
AB_CLK1_N_L
R7538
0
TERM
L
A4
A3
A2
A1
BLK
CLR
FX
FDET1
VDD1
ODE
GND
NC
VDD2
DM
C5_5V
C7504
16V
1u
C7533
100V
0.47u
AB_CLR_L
AB_ODE_L
AB_DDA8
AB_DDC9
AB_DDB9
AB_DDA9
R7520
0
C7510
16V
1u
C7557
100V
0.47u
TO
C4-BOARD
(C42)
C52
Vda75V
VDA_75V
SIDE
ZA7501
K4CD01000013
ZA7502
K4CD01000013
ZA7503
K4CD01000013
ZA7504
K4CD01000013
ZA7505
K4CD01000013

TH-50PV60E, TH-50PX60B
C5-Board (3 of 3) Schematic Diagram

14.58. C6-Board (1 of 2) Schematic Diagram

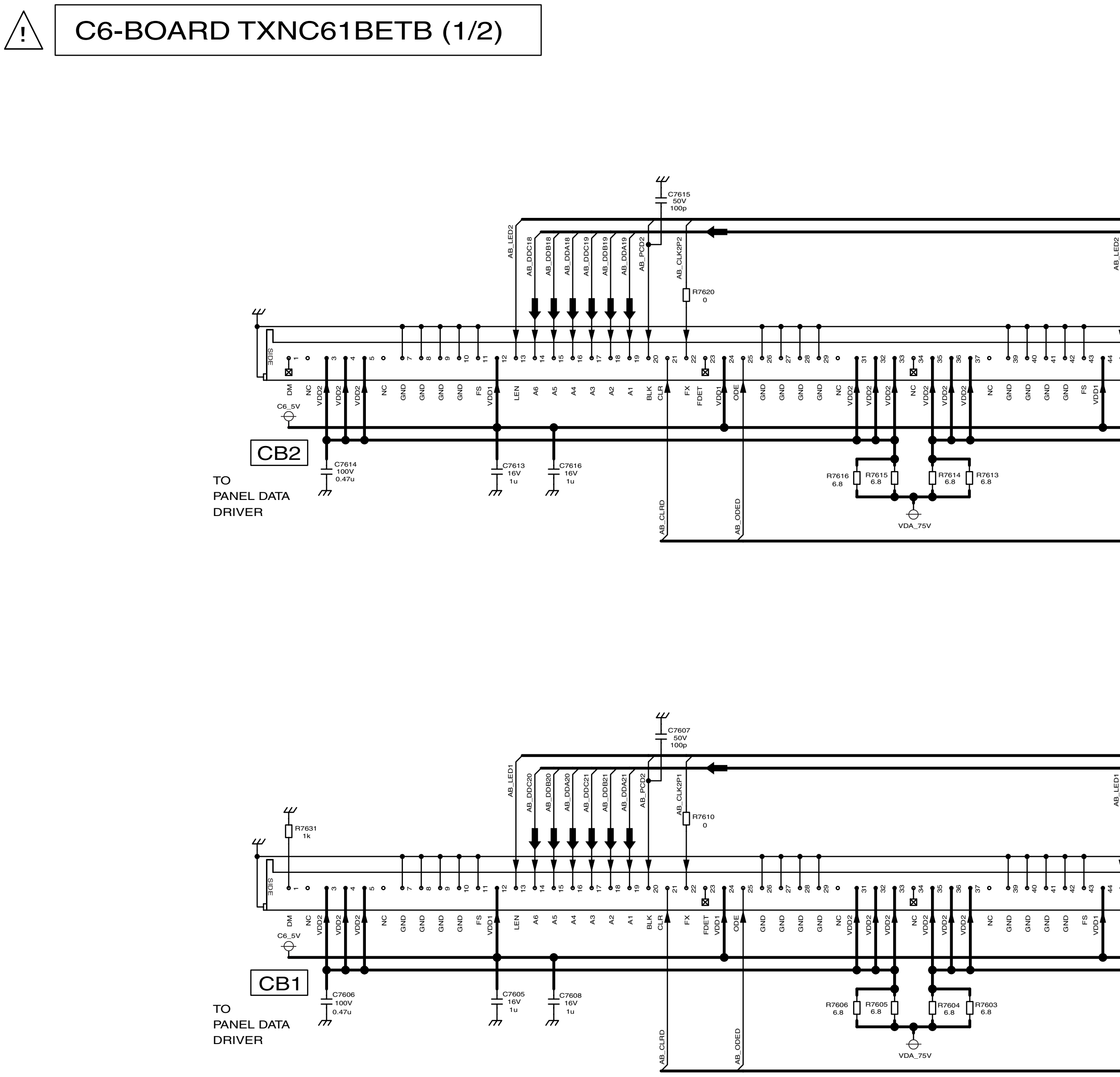
A

B

C

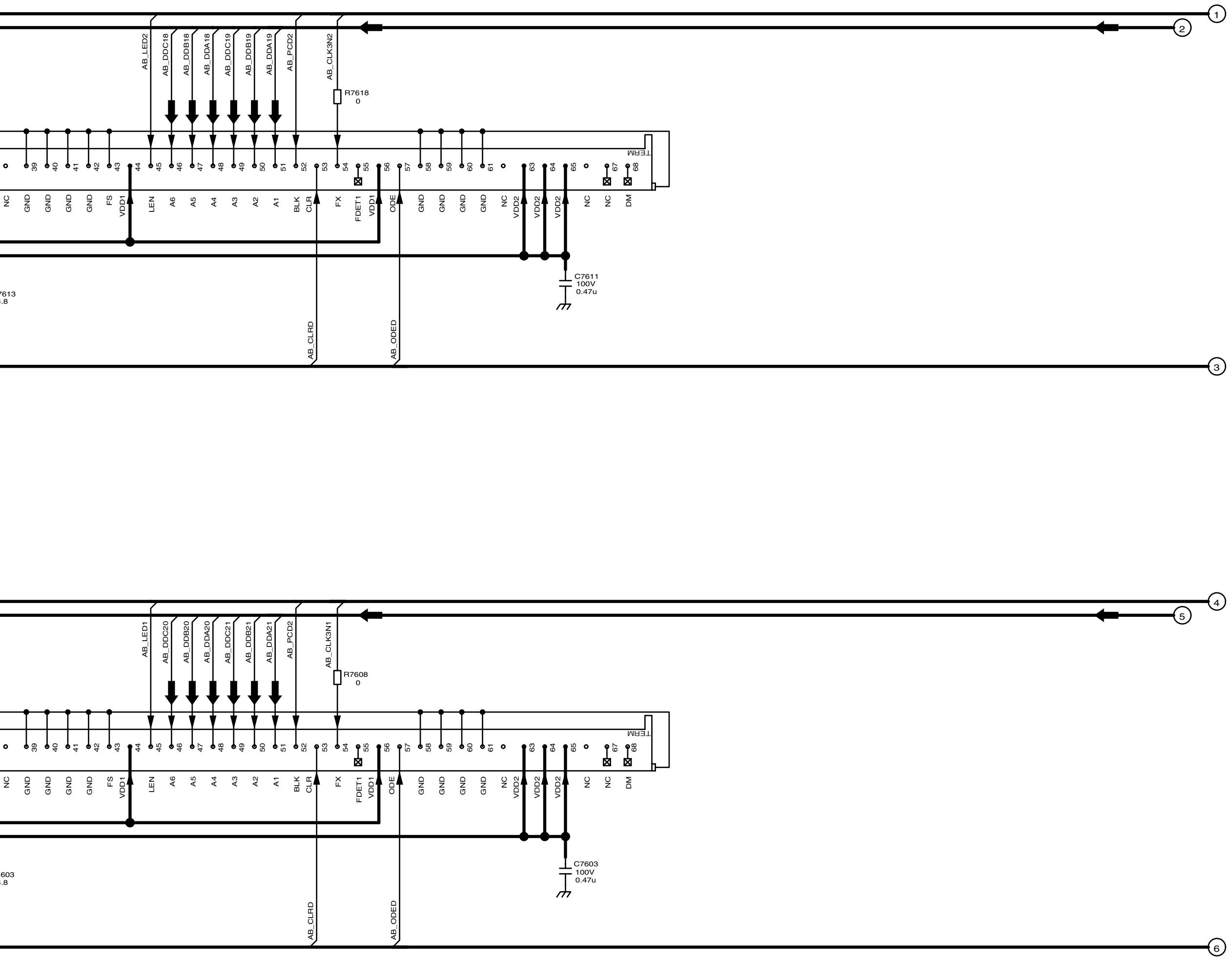
D

E


C6-BOARD TXNC61BETB (1/2)
CB2
TO
PANEL DATA
DRIVER
CB1
TO
PANEL DATA
DRIVER
C7615
50V
100p
C7607
50V
100p
AB_LED2
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
AB_PCD2
AB_CLK2P2
AB_LED1
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
AB_CLK2P1
R7620
0
R7610
0
R7631
1k
SIDE
DM
NC
VDD2
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
ODE
C6_5V
C7614
100V
0.47u
C7613
16V
1u
C7616
16V
1u
C7606
100V
0.47u
C7605
16V
1u
C7608
16V
1u
AB_CLRD
AB_ODED
R7616
6.8
R7615
6.8
R7614
6.8
R7613
6.8
R7606
6.8
R7605
6.8
R7604
6.8
R7603
6.8
VDA_75V

TH-50PV60E, TH-50PX60B
C6-Board (1 of 2) Schematic Diagram

1 2 3 4



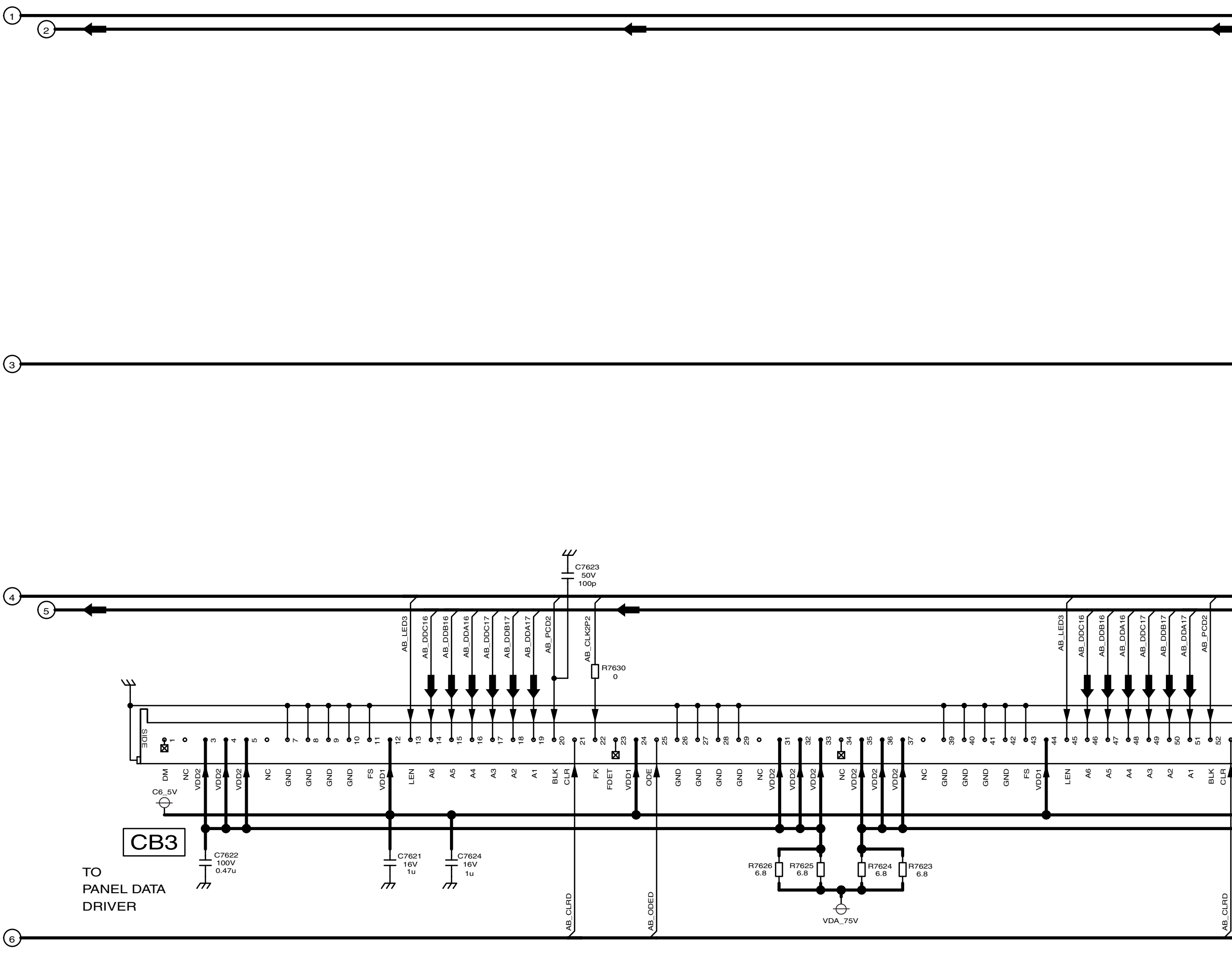
AB_LED2
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
AB_PCD2
AB_CLK3N2
R7618
0
TERM
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
63
64
65
67
68
NC
GND
GND
GND
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET1
VDD1
ODE
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
NC
DM
C7611
100V
0.47u
7613
.8
AB_CLRD
AB_ODED
1
2
3
AB_LED1
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
AB_PCD2
AB_CLK3N1
R7608
0
TERM
C7603
100V
0.47u
603
.8
AB_CLRD
AB_ODED
4
5
6

TH-50PV60E, TH-50PX60B
C6-Board (1 of 2) Schematic Diagram

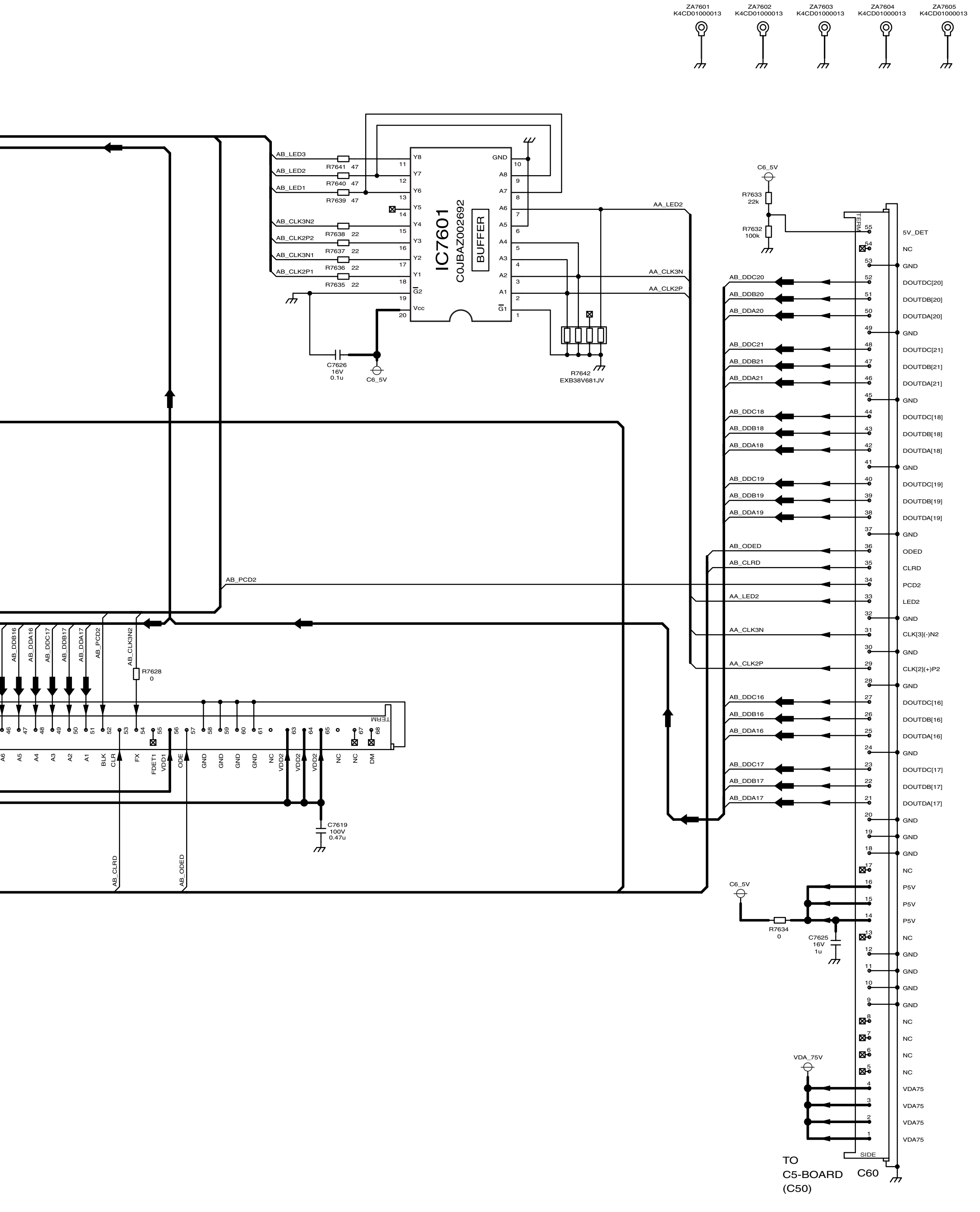
5 6 7 8

14.59. C6-Board (2 of 2) Schematic Diagram

⚠ C6-BOARD TXNC61BETB (2/2)

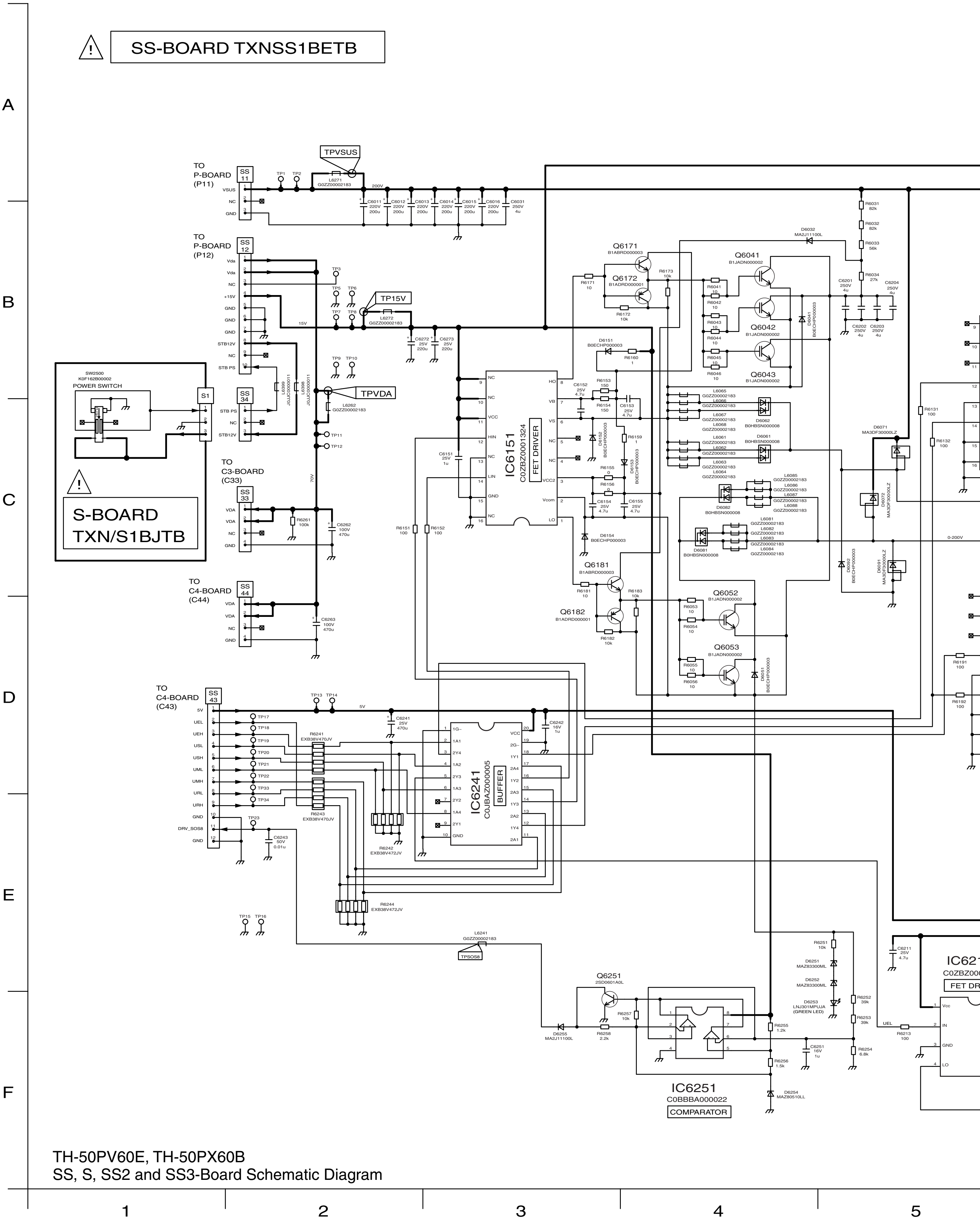


1
2
3
4
5
6
C7623
50V
100p
AB_LED3
AB_DDC16
AB_DDB16
AB_DDA16
AB_DDC17
AB_DDB17
AB_DDA17
AB_PCD2
AB_CLK2P2
R7630
0
SIDE
1
3
4
5
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
31
32
33
34
35
36
37
39
40
41
42
43
44
45
46
47
48
49
50
51
52
DM
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
VDD1
ODE
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
C6_5V
CB3
TO
PANEL DATA
DRIVER
C7622
100V
0.47u
C7621
16V
1u
C7624
16V
1u
R7626
6.8
R7625
6.8
R7624
6.8
R7623
6.8
VDA_75V
AB_CLRD
AB_ODED
AB_LED3
AB_DDC16
AB_DDB16
AB_DDA16
AB_DDC17
AB_DDB17
AB_DDA17
AB_PCD2
AB_CLRD

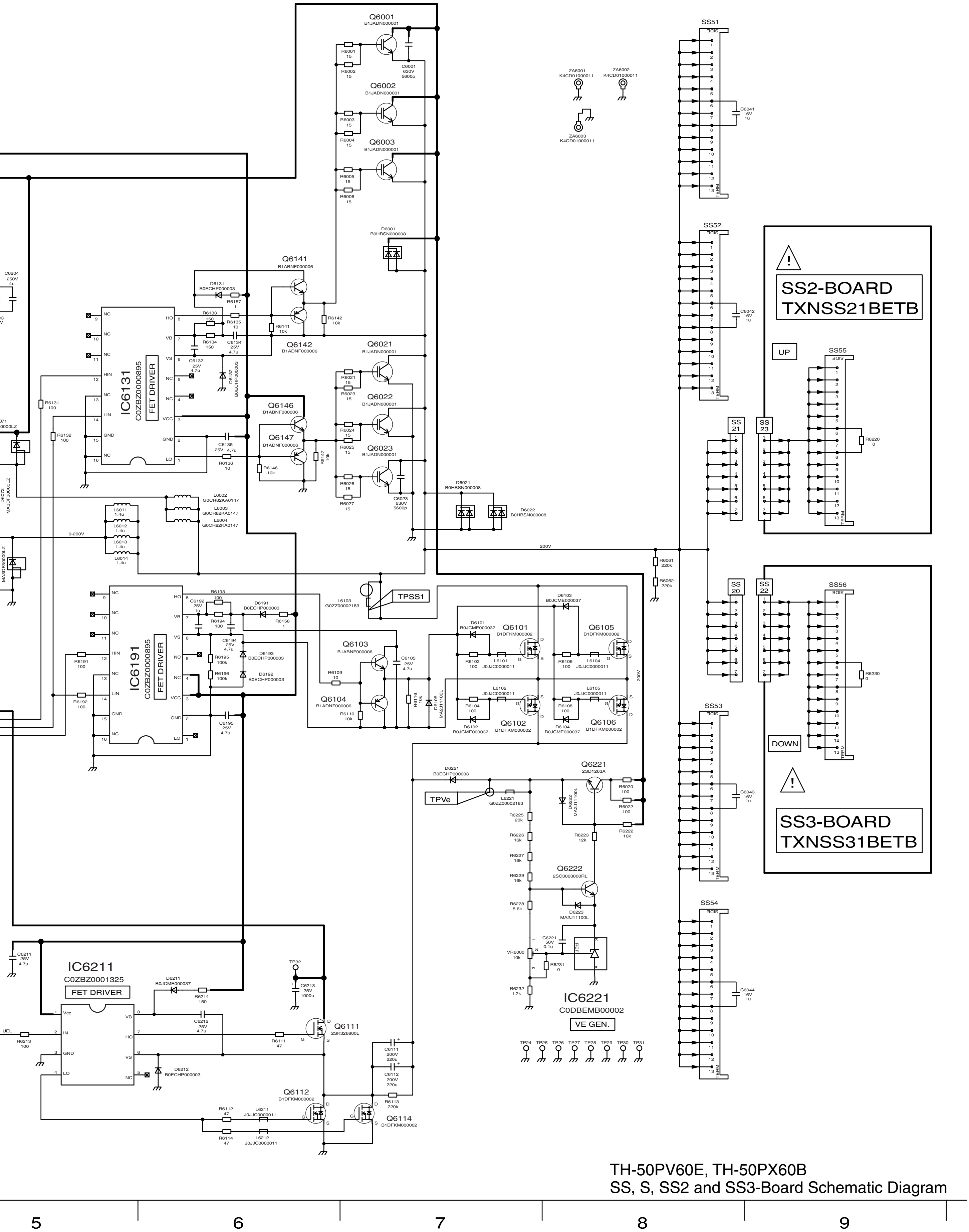

ZA7601 K4CD01000013
ZA7602 K4CD01000013
ZA7603 K4CD01000013
ZA7604 K4CD01000013
ZA7605 K4CD01000013
IC7601
C0JBAZ002692
BUFFER
AB_LED3
AB_LED2
AB_LED1
AB_CLK3N2
AB_CLK2P2
AB_CLK3N1
AB_CLK2P1
R7641 47
R7640 47
R7639 47
R7638 22
R7637 22
R7636 22
R7635 22
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
AA_LED2
AA_CLK3N
AA_CLK2P
C7626 16V 0.1u
C6_5V
R7642 EXB38V681JV
R7633 22k
R7632 100k
TERM
5V_DET
NC
GND
AB_DDC20
AB_DDB20
AB_DDA20
DOUTDC[20]
DOUTDB[20]
DOUTDA[20]
AB_DDC21
AB_DDB21
AB_DDA21
DOUTDC[21]
DOUTDB[21]
DOUTDA[21]
AB_DDC18
AB_DDB18
AB_DDA18
DOUTDC[18]
DOUTDB[18]
DOUTDA[18]
AB_DDC19
AB_DDB19
AB_DDA19
DOUTDC[19]
DOUTDB[19]
DOUTDA[19]
AB_ODED
AB_CLRD
AB_PCD2
ODED
CLRD
PCD2
AA_LED2
LED2
AA_CLK3N
CLK[3](-)N2
AA_CLK2P
CLK[2](+)P2
AB_DDC16
AB_DDB16
AB_DDA16
DOUTDC[16]
DOUTDB[16]
DOUTDA[16]
AB_DDC17
AB_DDB17
AB_DDA17
DOUTDC[17]
DOUTDB[17]
DOUTDA[17]
P5V
R7634 0
C7625 16V 1u
VDA_75V
VDA75
SIDE
TO C5-BOARD (C50)
C60
AB_DDB16
AB_DDA16
AB_DDC17
AB_DDB17
AB_DDA17
AB_PCD2
AB_CLK3N2
R7628 0
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET1
VDD1
ODE
GND
NC
VDD2
DM
TERM
C7619 100V 0.47u
AB_CLRD
AB_ODED

TH-50PV60E, TH-50PX60B
C6-Board (2 of 2) Schematic Diagram

14.60. SS, S, SS2 and SS3-Board Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
SS-BOARD TXNSS1BETB
TPVSUS
TO P-BOARD (P11)
SS 11
VSUS
NC
GND
TP1
TP2
L6271 G0ZZ00002183
200V
C6011 220V 200u
C6012 220V 200u
C6013 220V 200u
C6014 220V 200u
C6015 220V 200u
C6016 220V 200u
C6031 250V 4u
TO P-BOARD (P12)
SS 12
Vda
Vda
NC
+15V
GND
GND
GND
STB12V
NC
STB PS
TP3
TP5
TP6
TP7
TP8
TP15V
L6272 G0ZZ00002183
15V
C6272 25V 220u
C6273 25V 220u
TP9
TP10
L6399 J0JJC0000011
L6398 J0JJC0000011
TPVDA
L6262 G0ZZ00002183
TP11
TP12
SW2500 K0F162B00002
POWER SWITCH
S1
SS 34
STB PS
NC
STB12V
S-BOARD TXN/S1BJTB
TO C3-BOARD (C33)
SS 33
VDA
VDA
NC
GND
70V
R6261 100k
C6262 100V 470u
TO C4-BOARD (C44)
SS 44
VDA
VDA
NC
GND
C6263 100V 470u
Q6171 B1ABRD000003
Q6172 B1ADRD000001
R6171 10
R6172 10k
R6173 10k
D6151 B0ECHP000003
R6160 1
IC6151 C0ZBZ0001324 FET DRIVER
NC
NC
VCC
HIN
NC
LIN
GND
NC
HO
VB
VS
NC
NC
VCC2
Vcom
LO
C6151 25V 1u
C6152 25V 4.7u
R6153 150
R6154 150
C6153 25V 4.7u
D6152 B0ECHP000003
R6159 1
D6153 B0ECHP000003
R6155 0
R6156 0
C6154 25V 4.7u
C6155 25V 4.7u
D6154 B0ECHP000003
R6151 100
R6152 100
D6032 MA2J11100L
Q6041 B1JADN000002
Q6042 B1JADN000002
Q6043 B1JADN000002
R6041 10
R6042 10
R6043 10
R6044 10
R6045 10
R6046 10
D6041 B0ECHP000003
R6031 82k
R6032 82k
R6033 56k
R6034 27k
C6201 250V 4u
C6202 250V 4u
C6203 250V 4u
C6204 250V 4u
L6065 G0ZZ00002183
L6066 G0ZZ00002183
L6067 G0ZZ00002183
L6068 G0ZZ00002183
D6062 B0HBSN000008
L6061 G0ZZ00002183
L6062 G0ZZ00002183
D6061 B0HBSN000008
L6063 G0ZZ00002183
L6064 G0ZZ00002183
L6085 G0ZZ00002183
L6086 G0ZZ00002183
L6087 G0ZZ00002183
L6088 G0ZZ00002183
D6082 B0HBSN000008
L6081 G0ZZ00002183
L6082 G0ZZ00002183
L6083 G0ZZ00002183
L6084 G0ZZ00002183
D6081 B0HBSN000008
D6071 MA3DF30000LZ
D6072 MA3DF30000LZ
D6092 B0ECHP000003
D6091 MA3DF30000LZ
R6131 100
R6132 100
0-200V
Q6181 B1ABRD000003
Q6182 B1ADRD000001
R6181 10
R6182 10k
R6183 10k
Q6052 B1JADN000002
Q6053 B1JADN000002
R6053 10
R6054 10
R6055 10
R6056 10
D6051 B0ECHP000003
R6191 100
R6192 100
TO C4-BOARD (C43)
SS 43
5V
UEL
UEH
USL
USH
UML
UMH
URL
URH
GND
DRV_SOS8
GND
TP13
TP14
TP17
TP18
TP19
TP20
TP21
TP22
TP33
TP34
TP23
5V
C6241 25V 470u
R6241 EXB38V470JV
R6243 EXB38V470JV
R6242 EXB38V472JV
C6243 50V 0.01u
IC6241 C0JBAZ000005 BUFFER
1G-
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G-
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C6242 16V 1u
R6244 EXB38V472JV
TP15
TP16
L6241 G0ZZ00002183
TPSOS8
Q6251 2SD0601A0L
D6255 MA2J11100L
R6257 10k
R6258 2.2k
IC6251 C0BBBA000022 COMPARATOR
R6251 10k
D6251 MAZ83300ML
D6252 MAZ83300ML
D6253 LNJ301MPUJA (GREEN LED)
R6252 39k
R6253 39k
R6254 6.8k
R6255 1.2k
R6256 1.5k
C6251 16V 1u
D6254 MAZ80510LL
C6211 25V 4.7u
IC62
C0ZBZ00
FET DR
UEL
R6213 100
Vcc
IN
GND
LO

TH-50PV60E, TH-50PX60B
SS, S, SS2 and SS3-Board Schematic Diagram

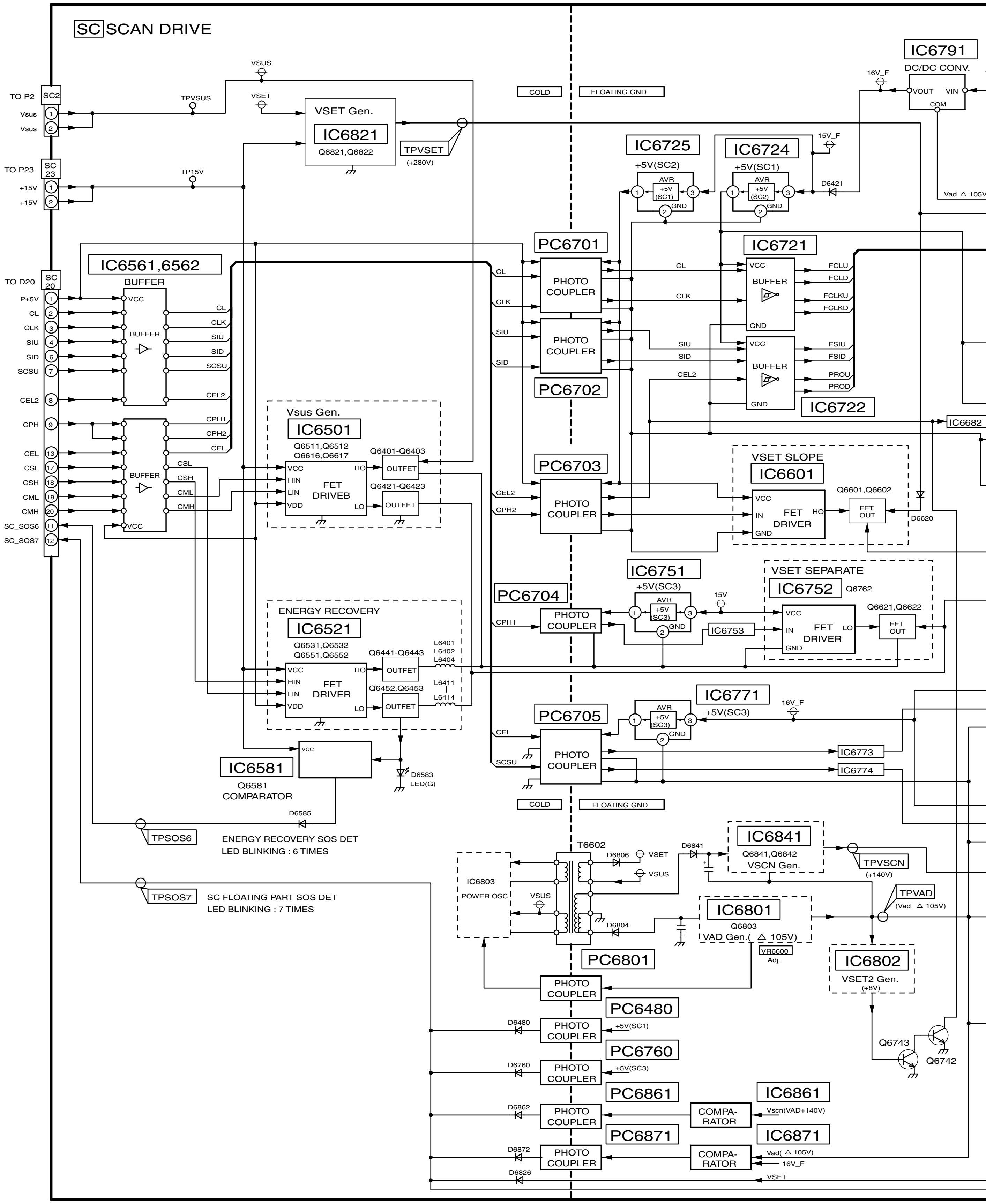


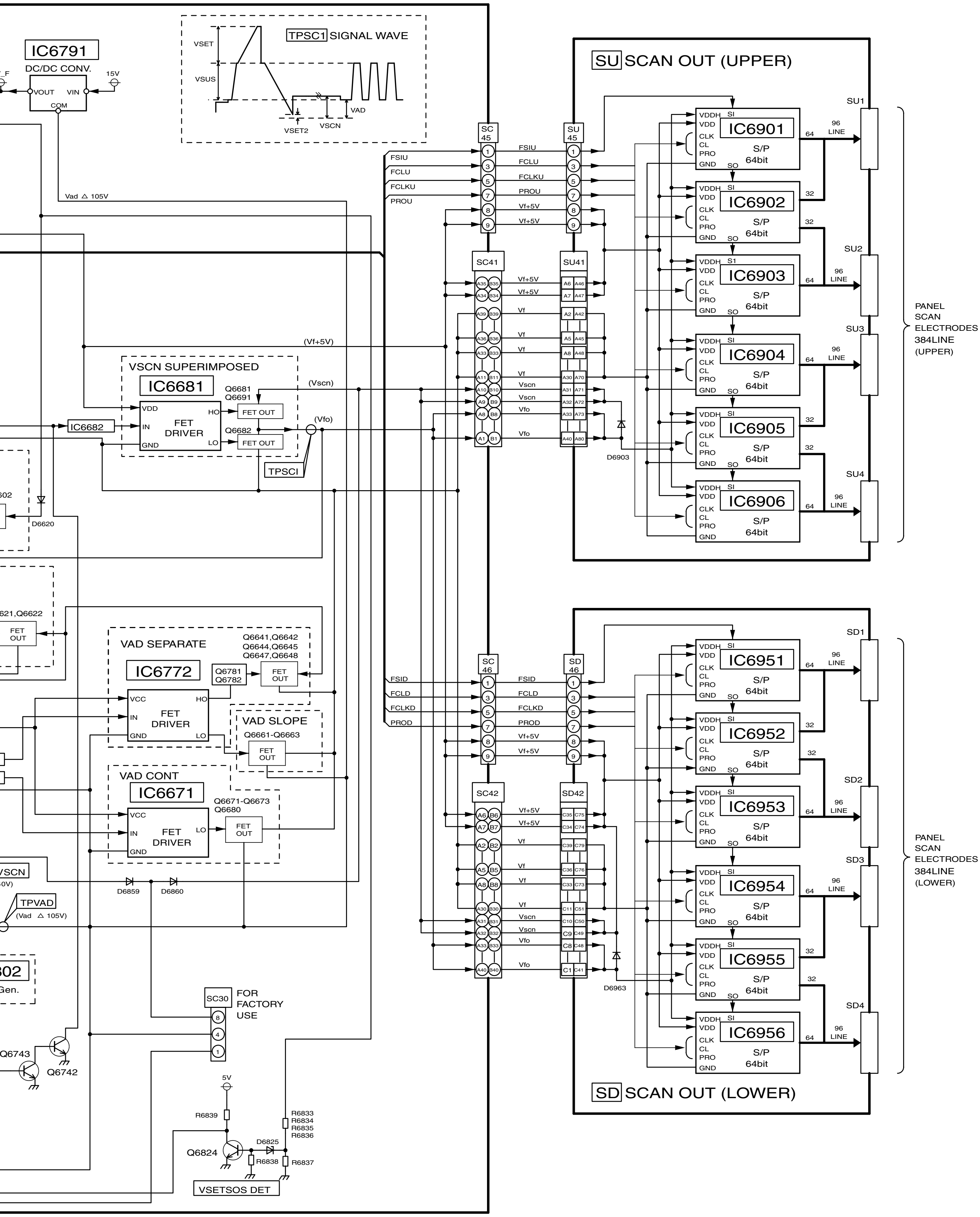
Q6001
B1JADN000001
R6001
15
R6002
15
C6001
630V
5600p
Q6002
B1JADN000001
R6003
15
R6004
15
Q6003
B1JADN000001
R6005
15
R6006
15
D6001
B0HBSN000008
SS51
SIDE
C6041
16V
1u
TERM
ZA6001
K4CD01000011
ZA6002
K4CD01000011
ZA6003
K4CD01000011
SS52
C6042
16V
1u
SS2-BOARD
TXNSS21BETB
UP
SS55
R6220
0
SS 21
SS 23
C6204
250V
4u
Q6141
B1ABNF000006
D6131
B0ECHP000003
R6157
1
R6133
150
R6135
10
R6134
150
C6134
25V
4.7u
R6141
10k
R6142
10k
Q6142
B1ADNF000006
C6132
25V
4.7u
D6132
B0ECHP000003
IC6131
C0ZBZ0000895
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6131
100
R6132
100
Q6021
B1JADN000001
R6021
15
R6023
15
Q6022
B1JADN000001
Q6146
B1ABNF000006
Q6147
B1ADNF000006
R6024
15
R6025
15
Q6023
B1JADN000001
C6135
25V 4.7u
R6136
10
R6146
10k
R6147
10k
R6026
15
R6027
15
C6023
630V
5600p
D6021
B0HBSN000008
D6022
B0HBSN000008
D6072
MA3DF3000LZ
L6002
G0CR82KA0147
L6003
G0CR82KA0147
L6004
G0CR82KA0147
L6011
1.4u
L6012
1.4u
L6013
1.4u
L6014
1.4u
0-200V
200V
R6061
220k
R6062
220k
SS 20
SS 22
SS56
R6230
0
IC6191
C0ZBZ0000895
FET DRIVER
R6193
100
C6192
25V
1u
R6194
100
D6191
B0ECHP000003
R6158
1
C6194
25V
4.7u
R6195
100k
R6196
100k
D6193
B0ECHP000003
D6192
B0ECHP000003
C6195
25V
4.7u
R6191
100
R6192
100
TPSS1
L6103
G0ZZ00002183
D6103
B0JCME000037
Q6103
B1ABNF000006
C6105
25V
4.7u
R6109
10
Q6104
B1ADNF000006
R6110
10k
R6116
10k
D6105
MA2J1100L
D6101
B0JCME000037
Q6101
B1DFKM000002
R6102
100
L6101
J0JJC0000011
Q6105
B1DFKM000002
R6106
100
L6104
J0JJC0000011
L6102
J0JJC0000011
L6105
J0JJC0000011
R6104
100
R6108
100
D6102
B0JCME000037
Q6102
B1DFKM000002
D6104
B0JCME000037
Q6106
B1DFKM000002
SS53
C6043
16V
1u
DOWN
SS3-BOARD
TXNSS31BETB
D6221
B0ECHP000003
Q6221
2SD1263A
TPVe
L6221
G0ZZ00002183
D6222
MA2J1100L
R6020
100
R6022
100
R6222
10k
R6225
20k
R6226
16k
R6227
16k
R6229
16k
R6223
12k
Q6222
2SC3063000RL
R6228
5.6k
D6223
MA2J1100L
C6221
50V
0.1u
VR6000
10k
R6231
0
REF
R6232
1.2k
IC6221
C0DBEMB00002
VE GEN.
SS54
C6044
16V
1u
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
C6211
25V
4.7u
IC6211
C0ZBZ0001325
FET DRIVER
D6211
B0JCME000037
R6214
150
TP32
C6213
25V
1000u
Vcc
IN
GND
LO
VB
HO
VS
NC
UEL
R6213
100
C6212
25V
4.7u
R6111
47
Q6111
2SK326800L
D6212
B0ECHP000003
C6111
200V
220u
C6112
200V
220u
Q6112
B1DFKM000002
R6113
220k
Q6114
B1DFKM000002
R6112
47
L6211
J0JJC0000011
R6114
47
L6212
J0JJC0000011

TH-50PV60E, TH-50PX60B
SS, S, SS2 and SS3-Board Schematic Diagram

5
6
7
8
9

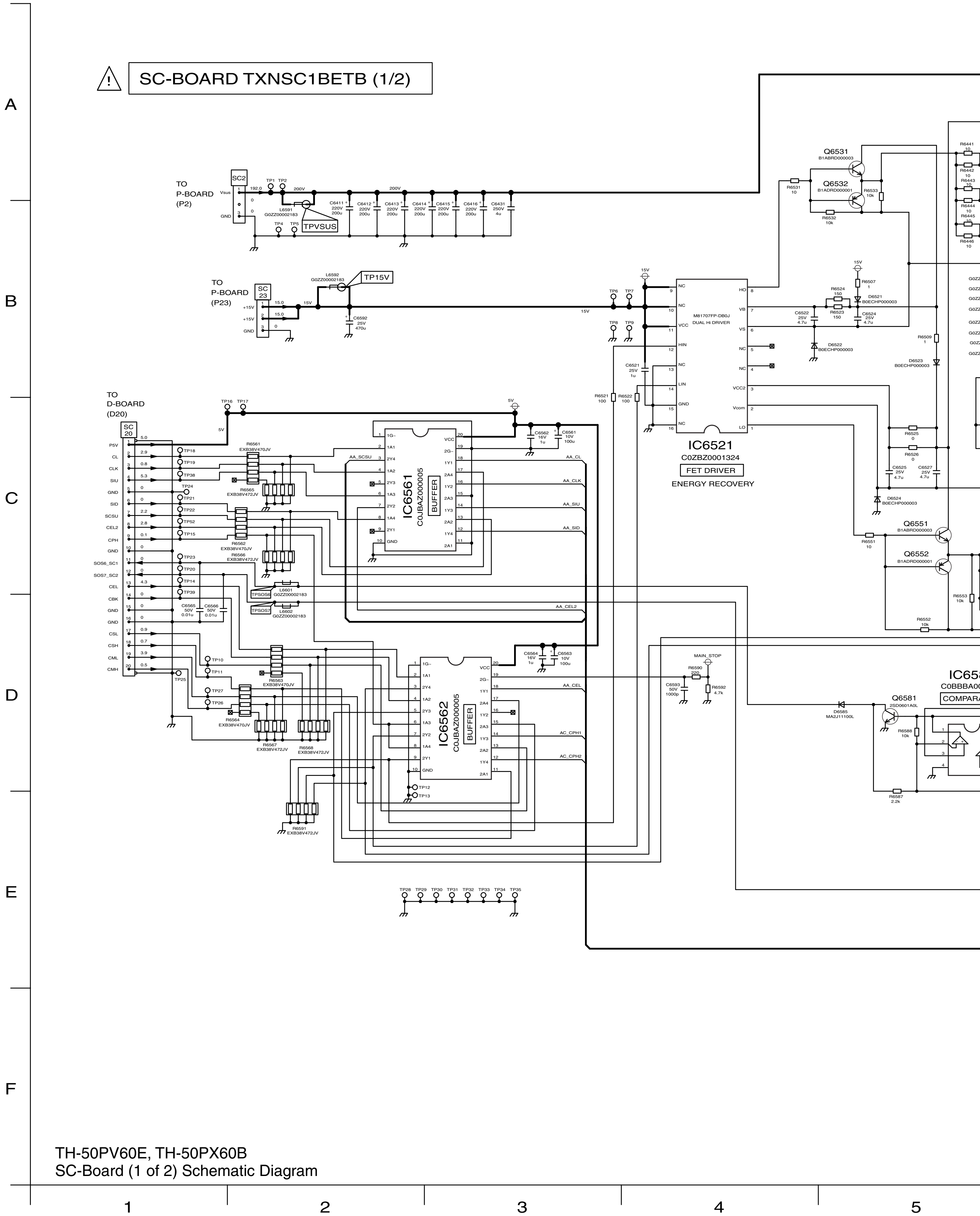
14.61. SC, SU and SD-Board Block Diagram


SC SCAN DRIVE
COLD
FLOATING GND
TO P2
SC2
Vsus
Vsus
TPVSUS
VSUS
VSET
VSET Gen.
IC6821
Q6821,Q6822
TPVSET
(+280V)
TO P23
SC23
+15V
+15V
TP15V
IC6791
DC/DC CONV.
16V_F
VOUT
VIN
COM
IC6725
+5V(SC2)
IC6724
+5V(SC1)
AVR
15V_F
D6421
Vad △ 105V
TO D20
SC20
P+5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CSL
CSH
CML
CMH
SC_SOS6
SC_SOS7
IC6561,6562
BUFFER
VCC
CPH1
CPH2
PC6701
PHOTO COUPLER
PC6702
IC6721
FCLU
FCLD
FCLKU
FCLKD
FSIU
FSID
PROU
PROD
GND
IC6722
IC6682
Vsus Gen.
IC6501
Q6511,Q6512
Q6616,Q6617
Q6401-Q6403
HIN
LIN
VDD
FET DRIVEB
HO
LO
OUTFET
Q6421-Q6423
PC6703
VSET SLOPE
IC6601
Q6601,Q6602
IN
FET DRIVER
FET OUT
D6620
IC6751
+5V(SC3)
PC6704
15V
VSET SEPARATE
IC6752
Q6762
Q6621,Q6622
IC6753
ENERGY RECOVERY
IC6521
Q6531,Q6532
Q6551,Q6552
Q6441-Q6443
Q6452,Q6453
L6401
L6402
L6404
L6411
L6414
IC6771
16V_F
PC6705
IC6773
IC6774
IC6581
Q6581
COMPARATOR
D6583
LED(G)
D6585
TPSOS6
ENERGY RECOVERY SOS DET
LED BLINKING : 6 TIMES
TPSOS7
SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES
T6602
D6806
D6841
IC6841
Q6841,Q6842
VSCN Gen.
TPVSCN
(+140V)
IC6803
POWER OSC
D6804
IC6801
Q6803
VAD Gen.(△ 105V)
VR6600
Adj.
TPVAD
(Vad △ 105V)
PC6801
IC6802
VSET2 Gen.
(+8V)
PC6480
D6480
+5V(SC1)
PC6760
D6760
+5V(SC3)
Q6743
Q6742
PC6861
D6862
IC6861
COMPA-RATOR
Vscn(VAD+140V)
PC6871
D6872
IC6871
Vad(△ 105V)
D6826

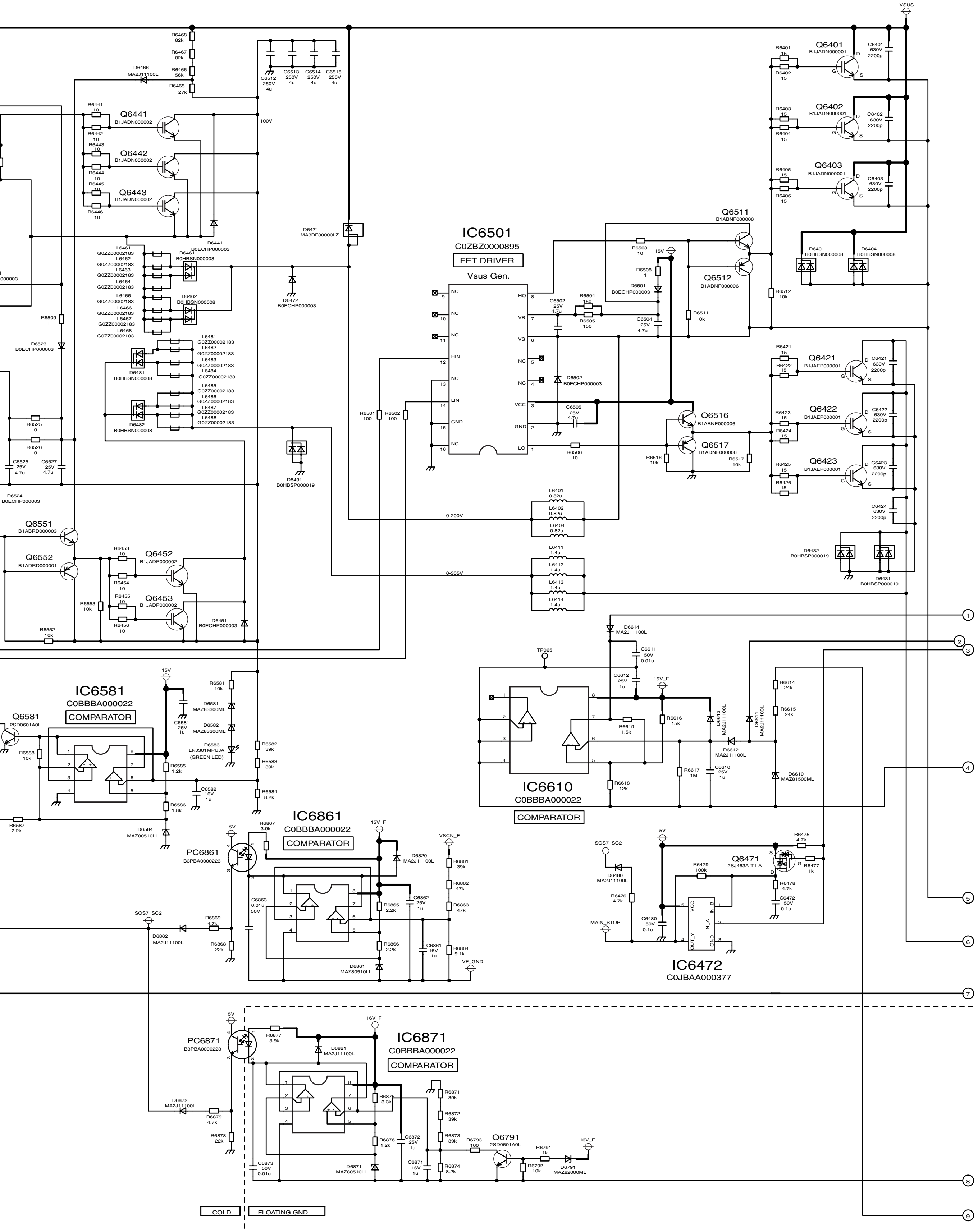

IC6791
DC/DC CONV.
VOUT
VIN
COM
15V
TPSC1 SIGNAL WAVE
VSET
VSUS
VSET2
VSCN
VAD
Vad △ 105V
SC 45
SU 45
FSIU
FCLU
FCLKU
PROU
Vf+5V
SC41
SU41
Vf
Vscn
Vfo
(Vf+5V)
(Vscn)
(Vfo)
VSCN SUPERIMPOSED
IC6681
Q6681 Q6691
Q6682
VDD
IN
GND
HO
LO
FET DRIVER
FET OUT
IC6682
TPSCI
D6620
Q6621,Q6622
VAD SEPARATE
IC6772
Q6781 Q6782
Q6641,Q6642 Q6644,Q6645 Q6647,Q6648
VCC
VAD SLOPE
Q6661-Q6663
VAD CONT
IC6671
Q6671-Q6673 Q6680
VSCN
TPVAD
(Vad △ 105V)
D6859
D6860
SC30
FOR FACTORY USE
Q6743
Q6742
5V
R6839
R6833 R6834 R6835 R6836
D6825
Q6824
R6838
R6837
VSETSOS DET
D6903
SC 46
SD 46
FSID
FCLD
FCLKD
PROD
SC42
SD42
D6963
SU SCAN OUT (UPPER)
SU1
SU2
SU3
SU4
IC6901
IC6902
IC6903
IC6904
IC6905
IC6906
VDDH
VDD
CLK
CL
PRO
GND
SI
SO
S/P 64bit
64
32
96 LINE
PANEL SCAN ELECTRODES 384LINE (UPPER)
SD SCAN OUT (LOWER)
SD1
SD2
SD3
SD4
IC6951
IC6952
IC6953
IC6954
IC6955
IC6956
PANEL SCAN ELECTRODES 384LINE (LOWER)

TH-50PV60E, TH-50PX60B
SC, SU and SD-Board Block Diagram

14.62. SC-Board (1 of 2) Schematic Diagram

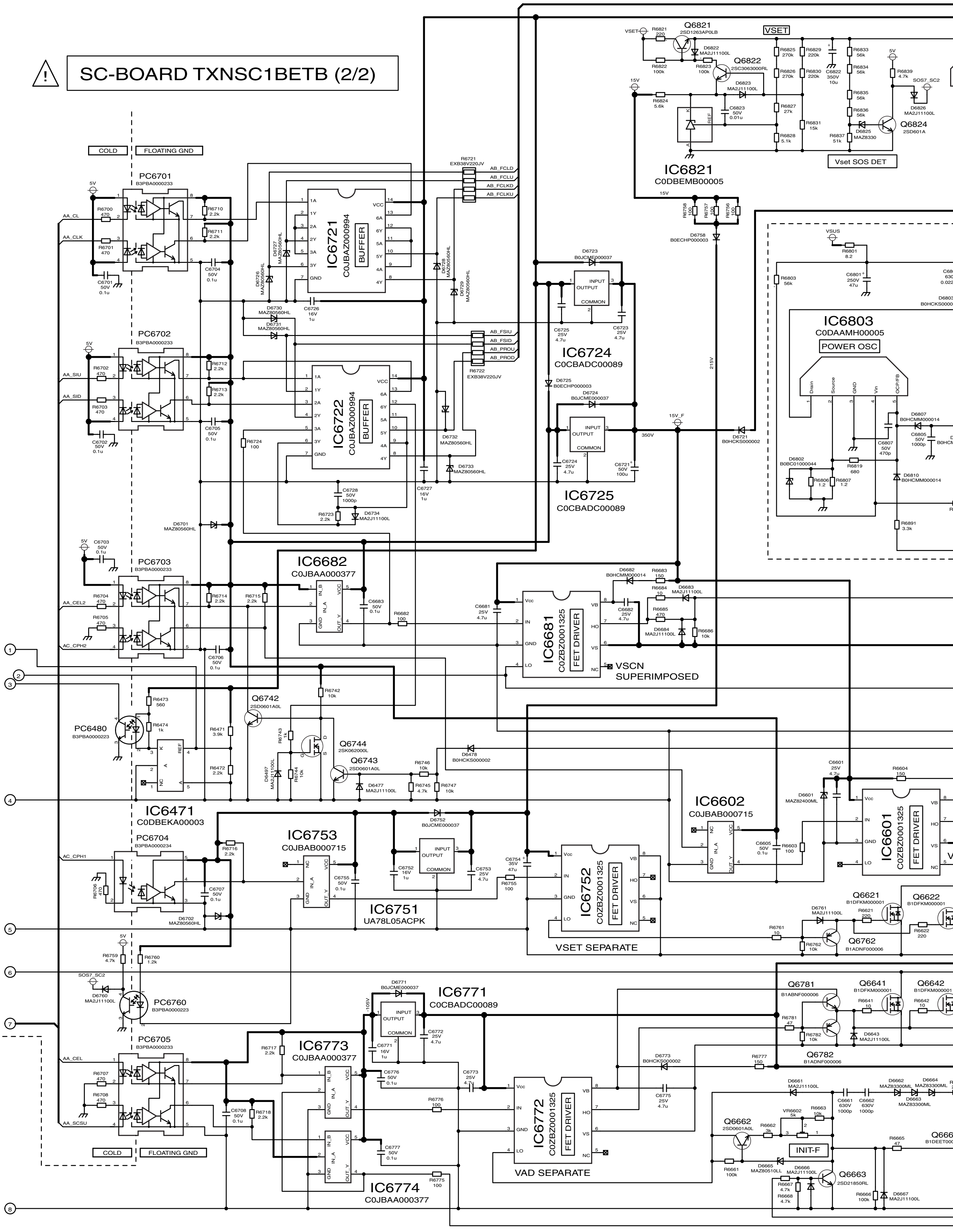

SC-BOARD TXNSC1BETB (1/2)
A
B
C
D
E
F
1
2
3
4
5
TO P-BOARD (P2)
SC2
Vsus
GND
192.0
200V
TP1
TP2
TP4
TP5
L6591 G0ZZ00002183
TPVSUS
C6411 220V 200u
C6412 220V 200u
C6413 220V 200u
C6414 220V 200u
C6415 220V 200u
C6416 220V 200u
C6431 250V 4u
TO P-BOARD (P23)
SC23
+15V
GND
15.0
15V
L6592 G0ZZ00002183
TP15V
C6592 25V 470u
TO D-BOARD (D20)
SC20
P5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
SOS6_SC1
SOS7_SC2
CEL
CBK
CSL
CSH
CML
CMH
TP16
TP17
5V
TP18
TP19
TP38
TP24
TP21
TP22
TP52
TP15
TP23
TP20
TP14
TP39
TP10
TP11
TP27
TP26
TP25
C6565 50V 0.01u
C6566 50V 0.01u
R6561 EXB38V470JV
R6565 EXB38V472JV
R6562 EXB38V470JV
R6566 EXB38V472JV
L6601 G0ZZ00002183
L6602 G0ZZ00002183
TPSOS6
TPSOS7
R6563 EXB38V470JV
R6564 EXB38V470JV
R6567 EXB38V472JV
R6568 EXB38V472JV
R6591 EXB38V472JV
IC6561
C0JBAZ000005
BUFFER
IC6562
C0JBAZ000005
BUFFER
1G-
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G-
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
AA_SCSU
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
AA_CEL
AC_CPH1
AC_CPH2
C6562 16V 1u
C6561 10V 100u
C6564 16V 1u
C6563 10V 100u
TP12
TP13
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
15V
TP6
TP7
TP8
TP9
C6521 25V 1u
R6521 100
R6522 100
IC6521
M81707FP-DB0J
DUAL Hi DRIVER
C0ZBZ0001324
FET DRIVER
ENERGY RECOVERY
NC
VCC
HIN
LIN
GND
HO
VB
VS
VCC2
Vcom
LO
Q6531 B1ABRD000003
Q6532 B1ADRD000001
R6531 10
R6532 10k
R6533 10k
R6441 10
R6442 10
R6443 10
R6444 10
R6445 10
R6446 10
R6507 1
R6524 150
R6523 150
D6521 B0ECHP000003
C6522 25V 4.7u
C6524 25V 4.7u
D6522 B0ECHP000003
R6509 1
D6523 B0ECHP000003
R6525 0
R6526 0
C6525 25V 4.7u
C6527 25V 4.7u
D6524 B0ECHP000003
Q6551 B1ABRD000003
Q6552 B1ADRD000001
R6551 10
R6553 10k
R6552 10k
MAIN_STOP
R6590 220
C6593 50V 1000p
R6592 4.7k
D6585 MA2J11100L
Q6581 2SD0601A0L
R6588 10k
R6587 2.2k
IC65
C0BBBA0
COMPARA

TH-50PV60E, TH-50PX60B
SC-Board (1 of 2) Schematic Diagram


VSUS
IC6501
C0ZBZ0000895
FET DRIVER
Vsus Gen.
HO
VB
VS
NC
VCC
GND
LO
HIN
LIN
Q6401 B1JADN000001
Q6402 B1JADN000001
Q6403 B1JADN000001
C6401 630V 2200p
C6402 630V 2200p
C6403 630V 2200p
Q6511 B1ABNF000006
Q6512 B1ADNF000006
Q6516 B1ABNF000006
Q6517 B1ADNF000006
D6401 B0HBSN000008
D6404 B0HBSN000008
Q6421 B1JAEP000001
Q6422 B1JAEP000001
Q6423 B1JAEP000001
C6421 630V 2200p
C6422 630V 2200p
C6423 630V 2200p
C6424 630V 2200p
D6432 B0HBSP000019
D6431 B0HBSP000019
Q6441 B1JADN000002
Q6442 B1JADN000002
Q6443 B1JADN000002
D6441 B0ECHP000003
D6461 B0HBSN000008
D6462 B0HBSN000008
D6481 B0HBSN000008
D6482 B0HBSN000008
D6471 MA3DF30000LZ
D6472 B0ECHP000003
D6491 B0HBSP000019
D6466 MA2J11100L
C6512 250V 4u
C6513 250V 4u
C6514 250V 4u
C6515 250V 4u
100V
0-200V
0-305V
L6401 0.82u
L6402 0.82u
L6404 0.82u
L6411 1.4u
L6412 1.4u
L6413 1.4u
L6414 1.4u
Q6551 B1ABRD000003
Q6552 B1ADRD000001
Q6452 B1JADP000002
Q6453 B1JADP000002
D6451 B0ECHP000003
D6523 B0ECHP000003
D6524 B0ECHP000003
IC6581
C0BBBA000022
COMPARATOR
Q6581 2SD0601A0L
D6581 MAZ83300ML
D6582 MAZ83300ML
D6583 LNJ301MPUJA (GREEN LED)
D6584 MAZ80510LL
IC6610
C0BBBA000022
COMPARATOR
TP065
D6614 MA2J11100L
D6613 MA2J11100L
D6611 MA2J11100L
D6612 MA2J11100L
D6610 MAZ81500ML
IC6861
C0BBBA000022
COMPARATOR
PC6861 B3PBA0000223
D6820 MA2J11100L
D6861 MAZ80510LL
D6862 MA2J11100L
15V_F
VSCN_F
VF_GND
SOS7_SC2
Q6471 2SJ463A-T1-A
D6480 MA2J11100L
MAIN_STOP
IC6472
C0JBAA000377
PC6871 B3PBA0000223
IC6871
C0BBBA000022
COMPARATOR
D6821 MA2J11100L
D6872 MA2J11100L
D6871 MAZ80510LL
Q6791 2SD0601A0L
D6791 MAZ82000ML
16V_F
5V
15V
COLD
FLOATING GND
1
2
3
4
5
6
7
8
9

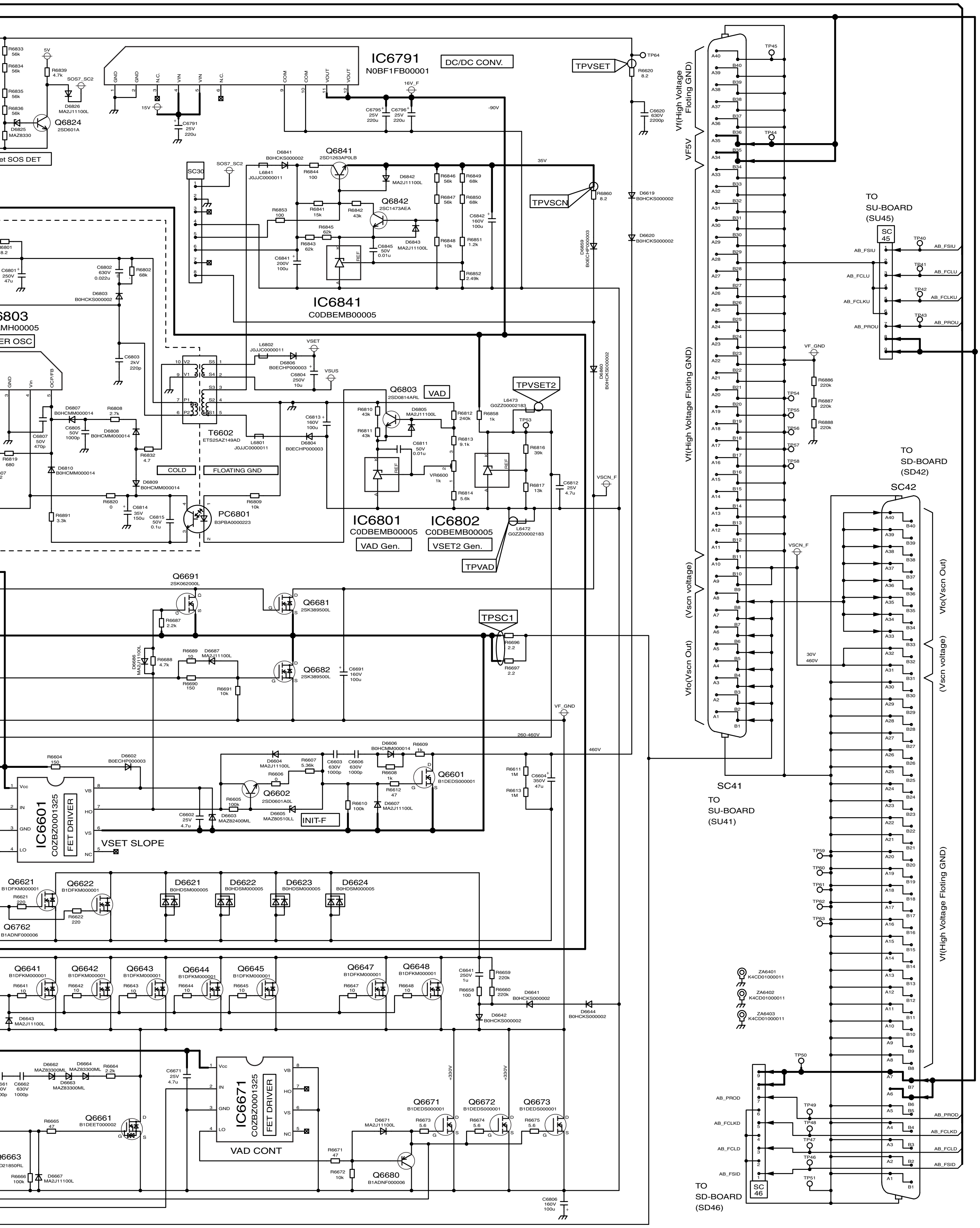
TH-50PV60E, TH-50PX60B SC-Board (1 of 2) Schematic Diagram

14.63. SC-Board (2 of 2) Schematic Diagram


SC-BOARD TXNSC1BETB (2/2)
COLD
FLOATING GND
PC6701
B3PBA0000233
PC6702
B3PBA0000233
PC6703
B3PBA0000233
PC6704
B3PBA0000234
PC6705
B3PBA0000233
PC6480
B3PBA0000223
PC6760
B3PBA0000223
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
AC_CPH2
AC_CPH1
AA_CEL
AA_SCSU
SOS7_SC2
IC6721
C0JBAZ000994
BUFFER
IC6722
C0JBAZ000994
BUFFER
R6721
EXB38V220JV
R6722
EXB38V220JV
AB_FCLD
AB_FCLU
AB_FCLKD
AB_FCLKU
AB_FSIU
AB_FSID
AB_PROU
AB_PROD
IC6724
C0CBADC00089
IC6725
C0CBADC00089
INPUT
OUTPUT
COMMON
IC6682
C0JBAA000377
IC6681
C0ZBZ0001325
FET DRIVER
VSCN
SUPERIMPOSED
IC6471
C0DBEKA00003
Q6742
2SD0601A0L
Q6743
2SD0601A0L
Q6744
2SK062000L
IC6753
C0JBAB000715
IC6751
UA78L05ACPK
IC6752
C0ZBZ0001325
FET DRIVER
VSET SEPARATE
IC6602
C0JBAB000715
IC6601
C0ZBZ0001325
FET DRIVER
IC6771
C0CBADC00089
IC6773
C0JBAA000377
IC6774
C0JBAA000377
IC6772
C0ZBZ0001325
FET DRIVER
VAD SEPARATE
Q6821
2SD1263AP0LB
Q6822
2SC3063000RL
Q6824
2SD601A
IC6821
C0DBEMB00005
VSET
Vset SOS DET
IC6803
C0DAAMH00005
POWER OSC
Drain
Source
GND
Vin
OCP/FB
VSUS
Q6621
B1DFKM000001
Q6622
B1DFKM000001
Q6762
B1ADNF000006
Q6781
B1ABNF000006
Q6782
B1ADNF000006
Q6641
B1DFKM000001
Q6642
B1DFKM000001
Q6662
2SD0601A0L
Q6663
2SD21850RL
INIT-F
5V
15V
15V_F
350V
215V
-105V
1
2
3
4
5
6
7
8
9

TH-50PV60E, TH-50PX60B SC-Board (2 of 2) Schematic Diagram

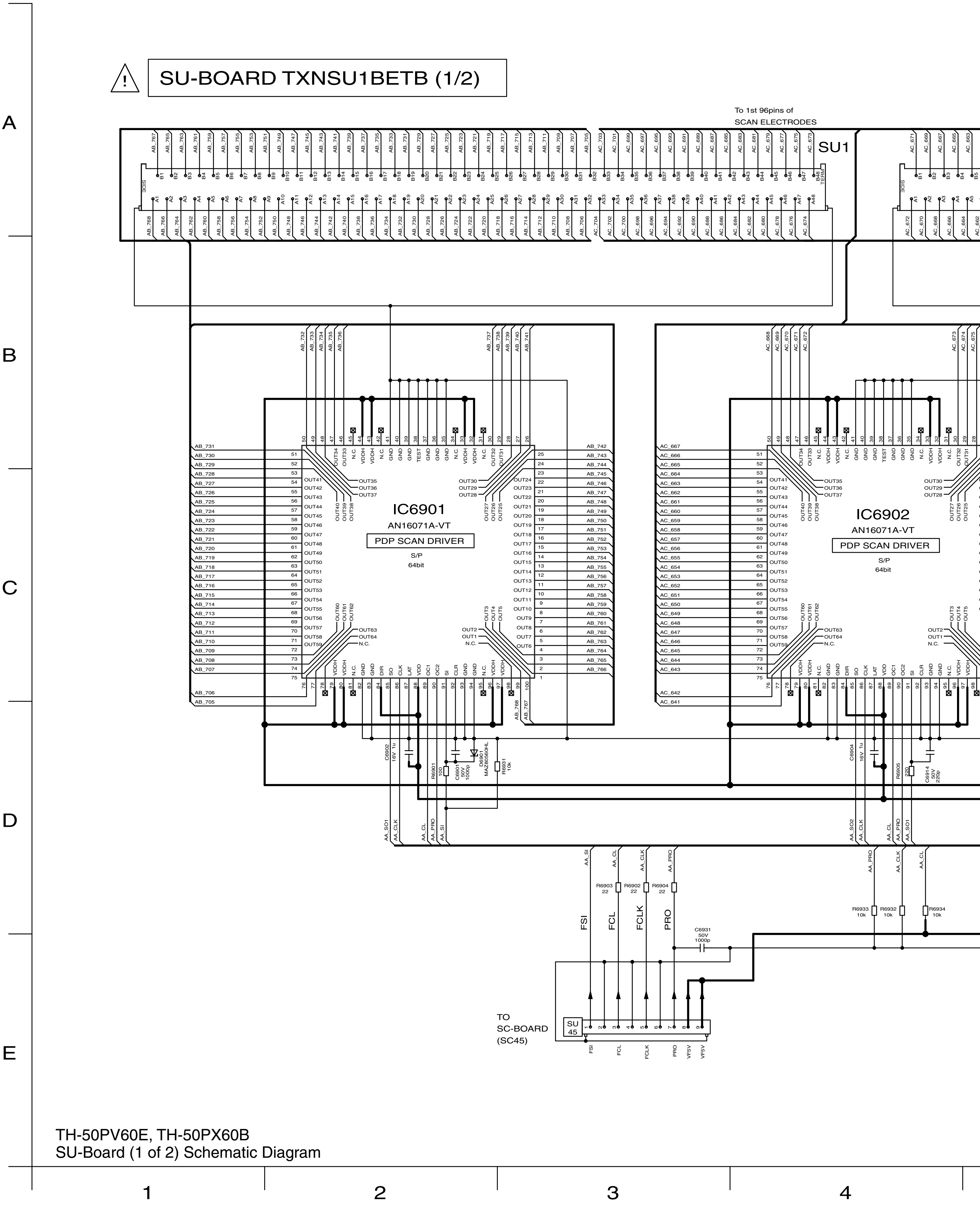
10 11 12 13 14


IC6791
N0BF1FB00001
DC/DC CONV.
TPVSET
TP64
Q6824
2SD601A
et SOS DET
Q6841
2SD1263AP0LB
Q6842
2SC1473AEA
TPVSCN
IC6841
C0DBEMB00005
SC30
SOS7_SC2
6803
MH00005
ER OSC
T6602
ETS25AZ149AD
COLD
FLOATING GND
PC6801
B3PBA0000223
Q6803
2SD0814ARL
VAD
TPVSET2
IC6801
C0DBEMB00005
VAD Gen.
IC6802
C0DBEMB00005
VSET2 Gen.
TPVAD
Q6691
2SK0620000L
Q6681
2SK3895000L
Q6682
2SK3895000L
TPSC1
IC6601
C0ZBZ0001325
FET DRIVER
VSET SLOPE
Q6601
B1DEDS000001
Q6602
2SD0601A0L
INIT-F
Q6621
Q6622
D6621
D6622
D6623
D6624
Q6762
Q6641
Q6642
Q6643
Q6644
Q6645
Q6647
Q6648
Q6661
IC6671
C0ZBZ0001325
FET DRIVER
VAD CONT
Q6671
Q6672
Q6673
Q6680
B1ADNF000006
6663
Vf(High Voltage Floting GND)
VF5V
Vf(High Voltage Floting GND)
(Vscn voltage)
Vfo(Vscn Out)
SC41
TO
SU-BOARD
(SU41)
TO
SU-BOARD
(SU45)
SC 45
AB_FSIU
AB_FCLU
AB_FCLKU
AB_PROU
TO
SD-BOARD
(SD42)
SC42
Vfo(Vscn Out)
(Vscn voltage)
Vf(High Voltage Floting GND)
SC 46
TO
SD-BOARD
(SD46)
AB_PROD
AB_FCLKD
AB_FCLD
AB_FSID
ZA6401
ZA6402
ZA6403

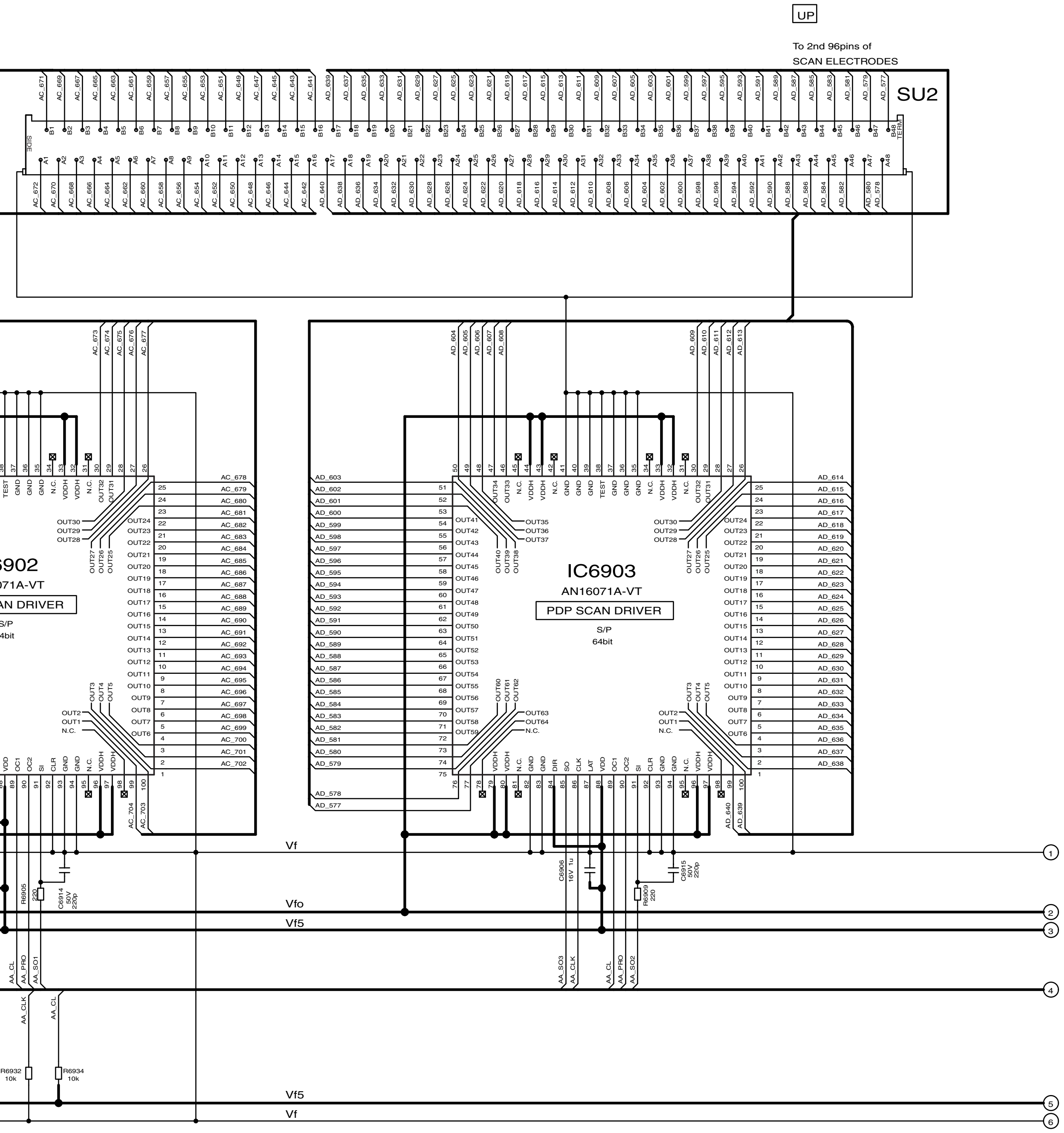
TH-50PV60E, TH-50PX60B SC-Board (2 of 2) Schematic Diagram

14	15	16	17	18

14.64. SU-Board (1 of 2) Schematic Diagram


SU-BOARD TXNSU1BETB (1/2)
To 1st 96pins of SCAN ELECTRODES
SU1
IC6901
AN16071A-VT
PDP SCAN DRIVER
S/P 64bit
IC6902
AN16071A-VT
PDP SCAN DRIVER
S/P 64bit
C6902 16V 1u
R6901 100
C6901 50V 1000p
D6901 MAZ80560HL
R6931 10k
C6904 16V 1u
R6905 220
C6914 50V 220p
R6903 22
R6902 22
R6904 22
R6933 10k
R6932 10k
R6934 10k
C6931 50V 1000p
FSI
FCL
FCLK
PRO
TO SC-BOARD (SC45)
SU45
FSI
FCL
FCLK
PRO
VF5V
VF5V
AA_SO1
AA_CLK
AA_CL
AA_PRO
AA_SI
AA_SO2
A
B
C
D
E
1
2
3
4

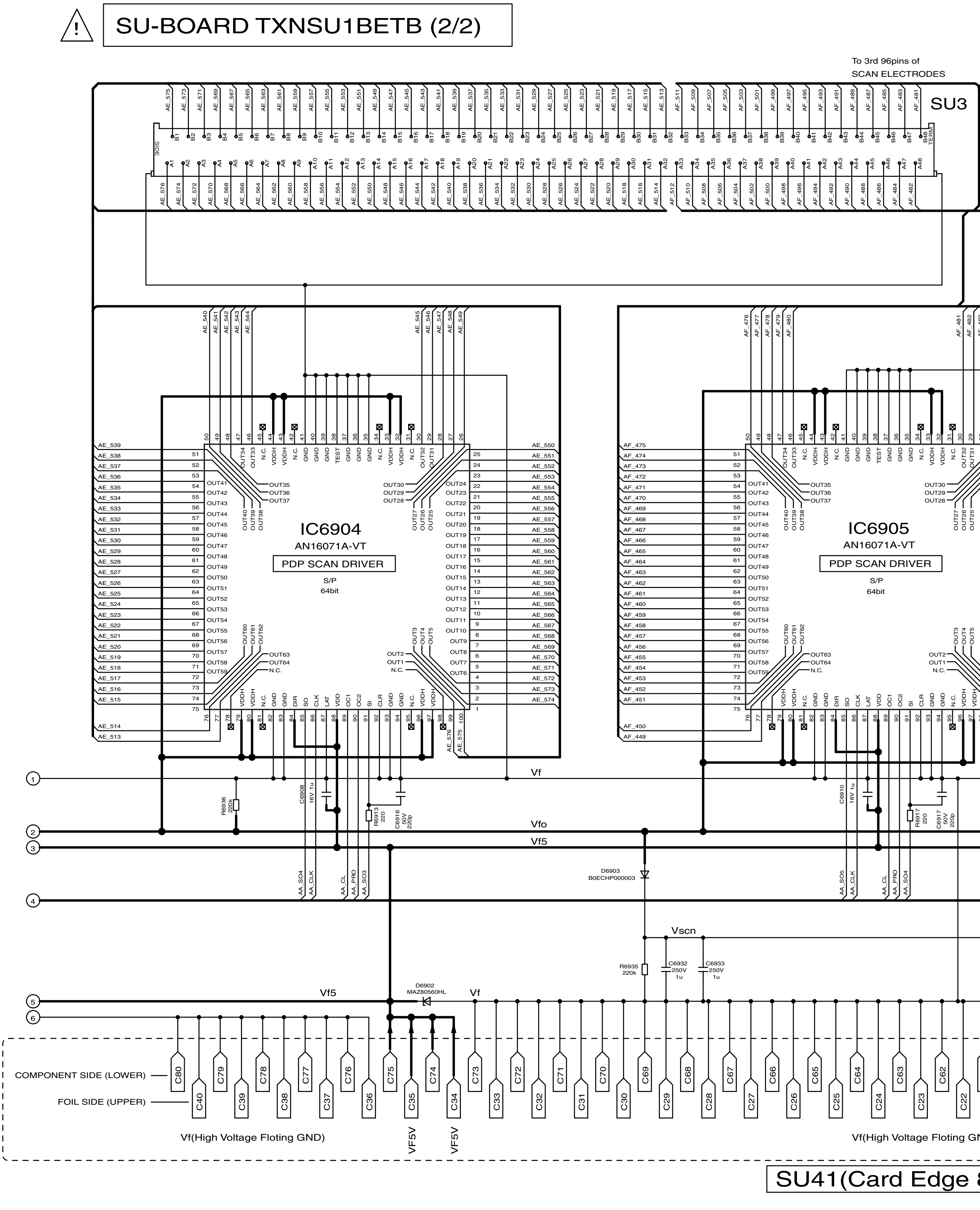
TH-50PV60E, TH-50PX60B
SU-Board (1 of 2) Schematic Diagram

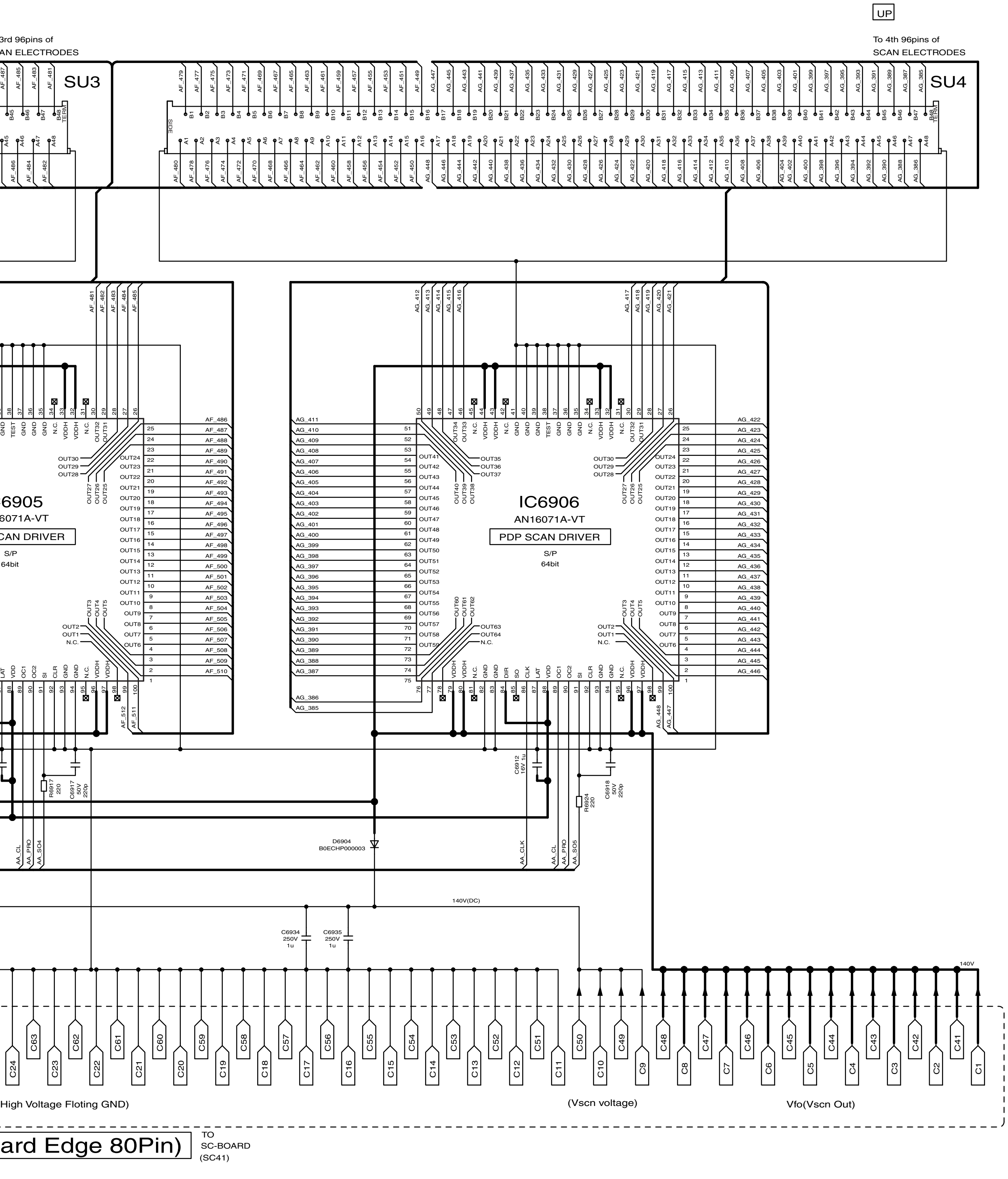

UP
To 2nd 96pins of
SCAN ELECTRODES
SU2
SIDE
TERM
6902
071A-VT
AN DRIVER
S/P
4bit
IC6903
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vf5
Vf
R6905
220
C6914
50V
220p
C6906
16V 1u
R6909
220
C6915
50V
220p
AA_CL
AA_PRO
AA_SO1
AA_CLK
AA_CL
AA_SO3
AA_CLK
AA_CL
AA_PRO
AA_SO2
R6932
10k
R6934
10k
1
2
3
4
5
6

TH-50PV60E, TH-50PX60B
SU-Board (1 of 2) Schematic Diagram

5 6 7 8

14.65. SU-Board (2 of 2) Schematic Diagram

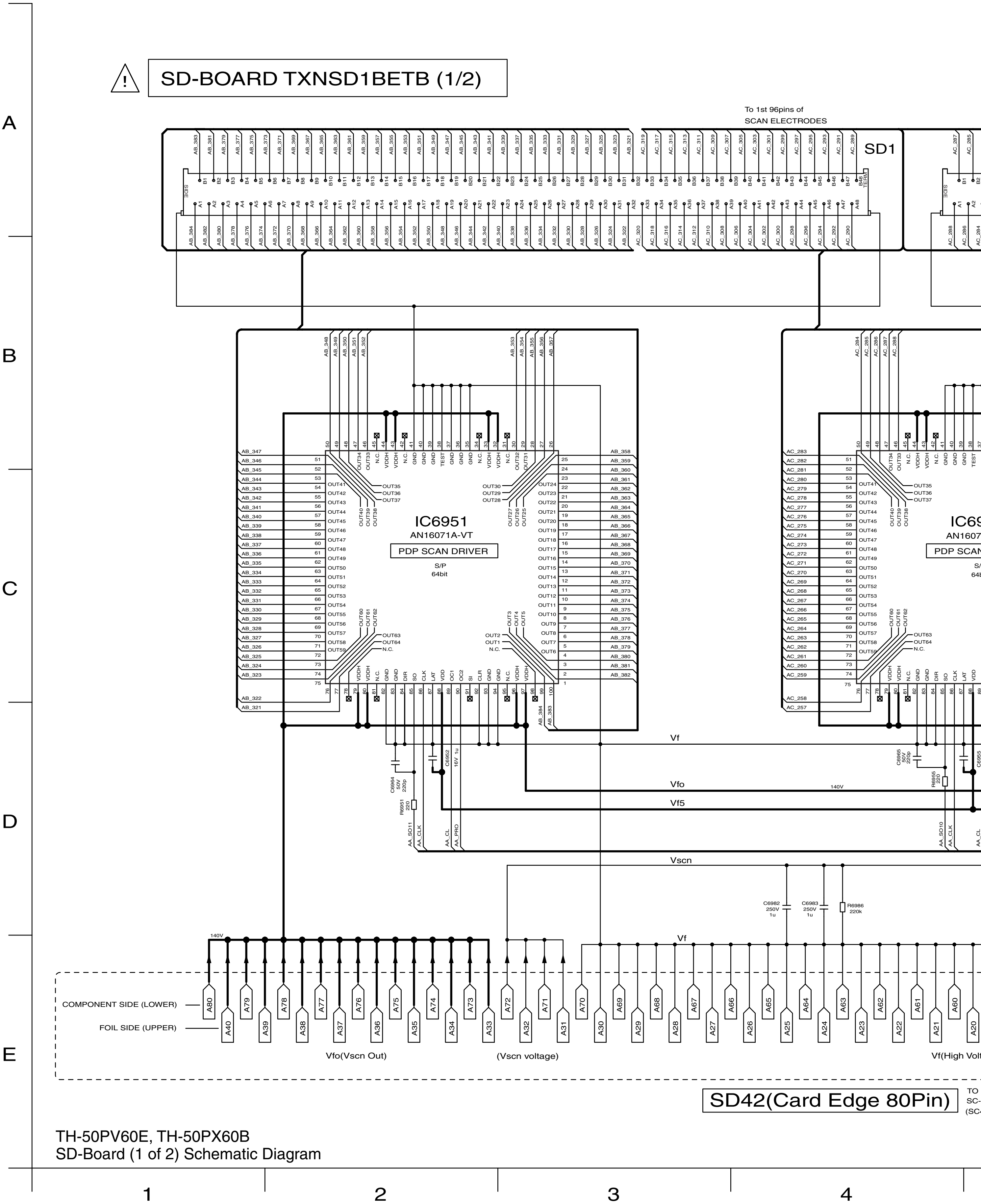

SU-BOARD TXNSU1BETB (2/2)
To 3rd 96pins of
SCAN ELECTRODES
SU3
SIDE
TERM
IC6904
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6905
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
VDDH
N.C.
GND
TEST
DIR
SO
CLK
LAT
VDD
OC1
OC2
SI
CLR
Vf
Vfo
Vf5
Vscn
R6936
220k
C6908
16V 1u
R6913
220
C6916
50V
220p
C6910
16V 1u
R6917
220
C6917
50V
220p
D6903
B0ECHP000003
R6935
220k
C6932
250V
1u
C6933
250V
1u
D6902
MAZ80560HL
AA_SO4
AA_CLK
AA_CL
AA_PRO
AA_SO3
AA_SO5
1
2
3
4
5
6
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
C80
C79
C78
C77
C76
C75
C74
C73
C72
C71
C70
C69
C68
C67
C66
C65
C64
C63
C62
C40
C39
C38
C37
C36
C35
C34
C33
C32
C31
C30
C29
C28
C27
C26
C25
C24
C23
C22
Vf(High Voltage Floting GND)
VF5V
VF5V
Vf(High Voltage Floting GN
SU41(Card Edge


UP
3rd 96pins of
AN ELECTRODES
SU3
To 4th 96pins of
SCAN ELECTRODES
SU4
SIDE
TERM
IC6905
16071A-VT
CAN DRIVER
S/P
64bit
IC6906
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
D6904
B0ECHP000003
C6912
16V 1u
R6917
220
C6917
50V
220p
R6924
220
C6918
50V
220p
C6934
250V
1u
C6935
250V
1u
140V(DC)
140V
AA_CL
AA_PRO
AA_SO4
AA_CLK
AA_SO5
High Voltage Floting GND)
(Vscn voltage)
Vfo(Vscn Out)
ard Edge 80Pin)
TO
SC-BOARD
(SC41)

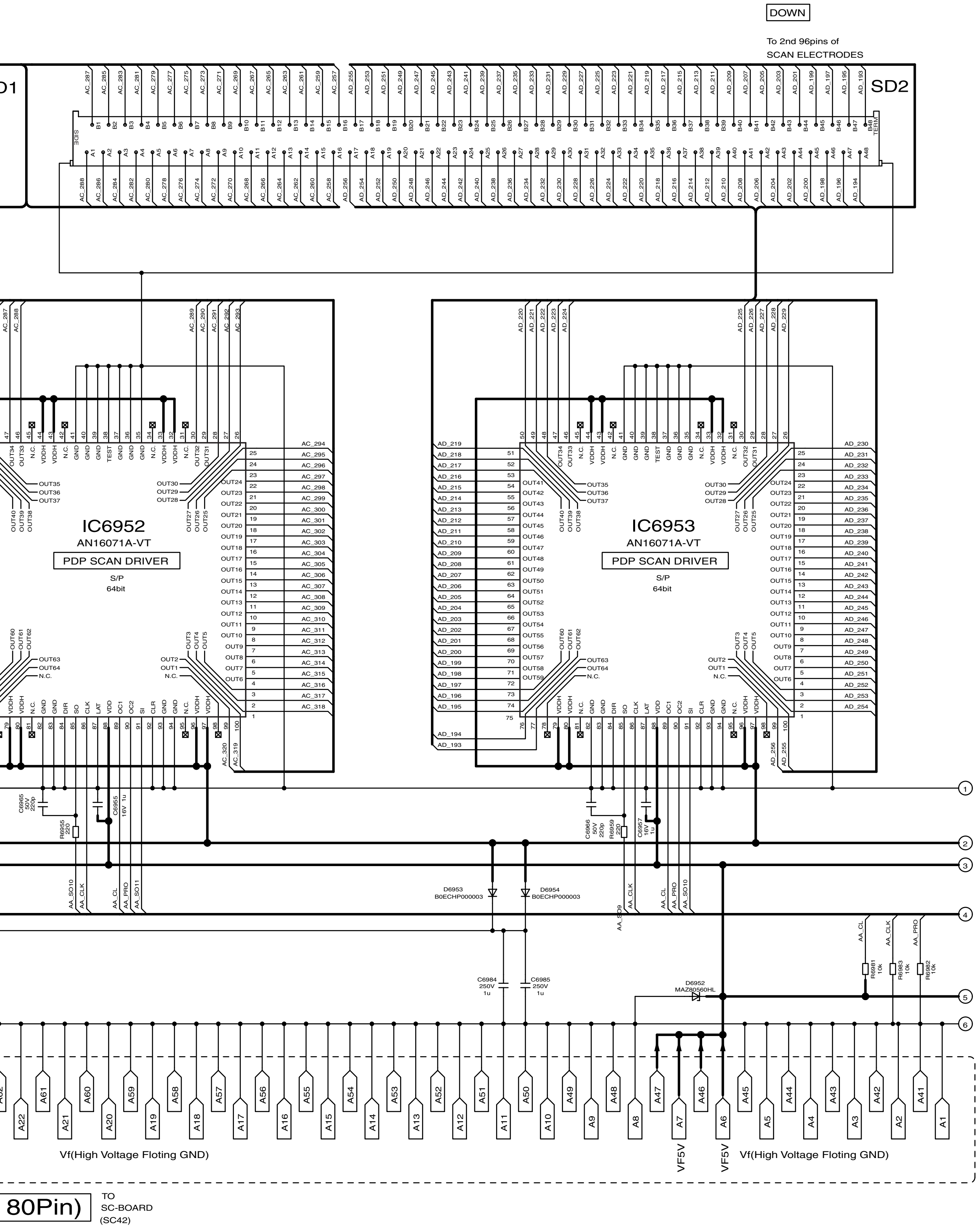
TH-50PV60E, TH-50PX60B
SU-Board (2 of 2) Schematic Diagram

12 13 14 15

14.66. SD-Board (1 of 2) Schematic Diagram


A
B
C
D
E
1
2
3
4
SD-BOARD TXNSD1BETB (1/2)
To 1st 96pins of
SCAN ELECTRODES
SD1
SIDE
B48 TERM
IC6951
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
OUT35
OUT36
OUT37
OUT30
OUT29
OUT28
OUT63
OUT64
N.C.
OUT2
OUT1
VDDH
GND
TEST
DIR
SO
CLK
LAT
VDD
OC1
OC2
SI
CLR
Vf
Vfo
Vf5
Vscn
140V
C6964 50V 220p
R6951 220
C6952 16V 1u
C6965 50V 220p
R6955 220
C6982 250V 1u
C6983 250V 1u
R6986 220k
AA_SO11
AA_CLK
AA_CL
AA_PRO
AA_SO10
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
Vfo(Vscn Out)
(Vscn voltage)
Vf(High Volt
SD42(Card Edge 80Pin)
TO
SC-
(SC

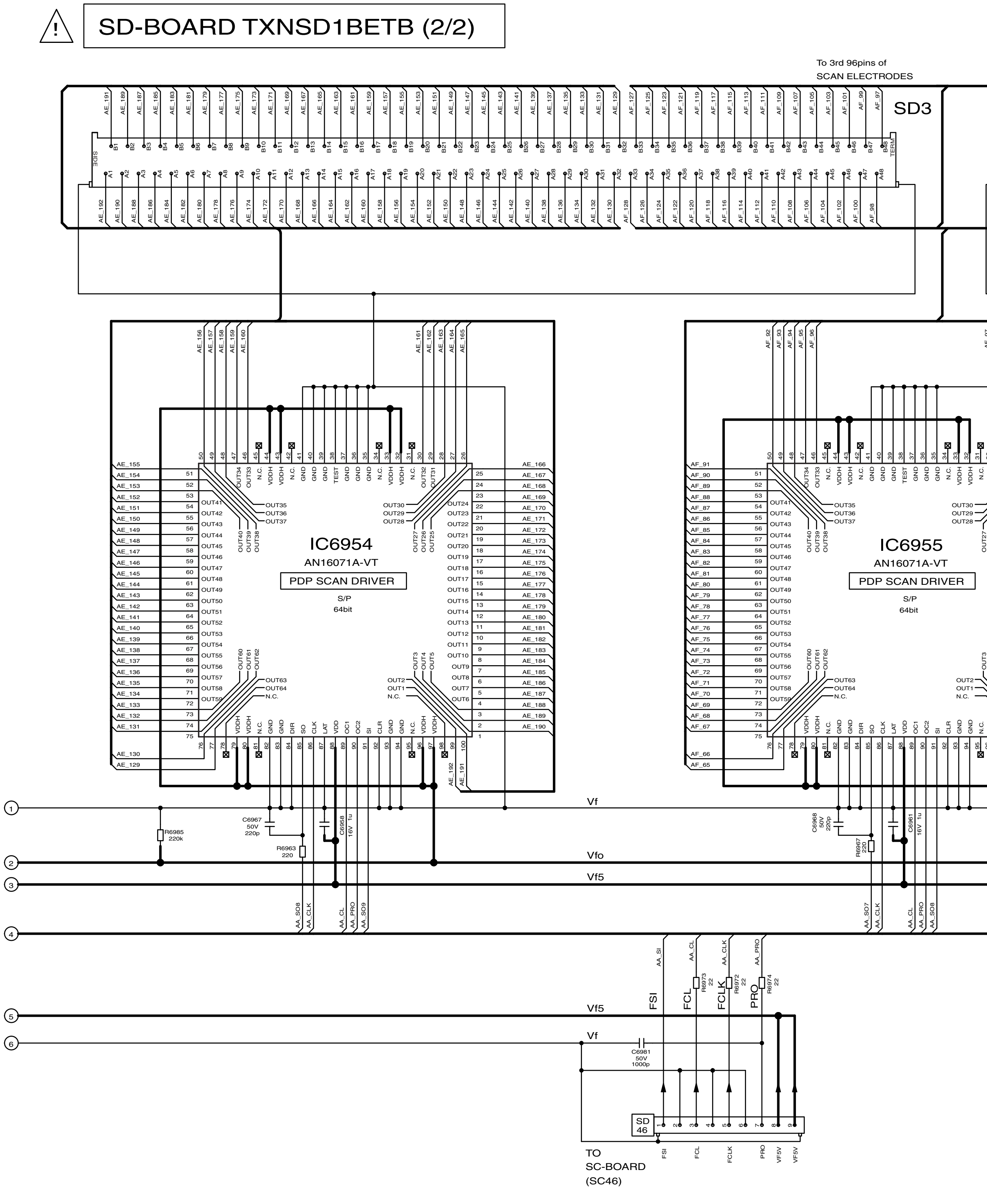
TH-50PV60E, TH-50PX60B
SD-Board (1 of 2) Schematic Diagram

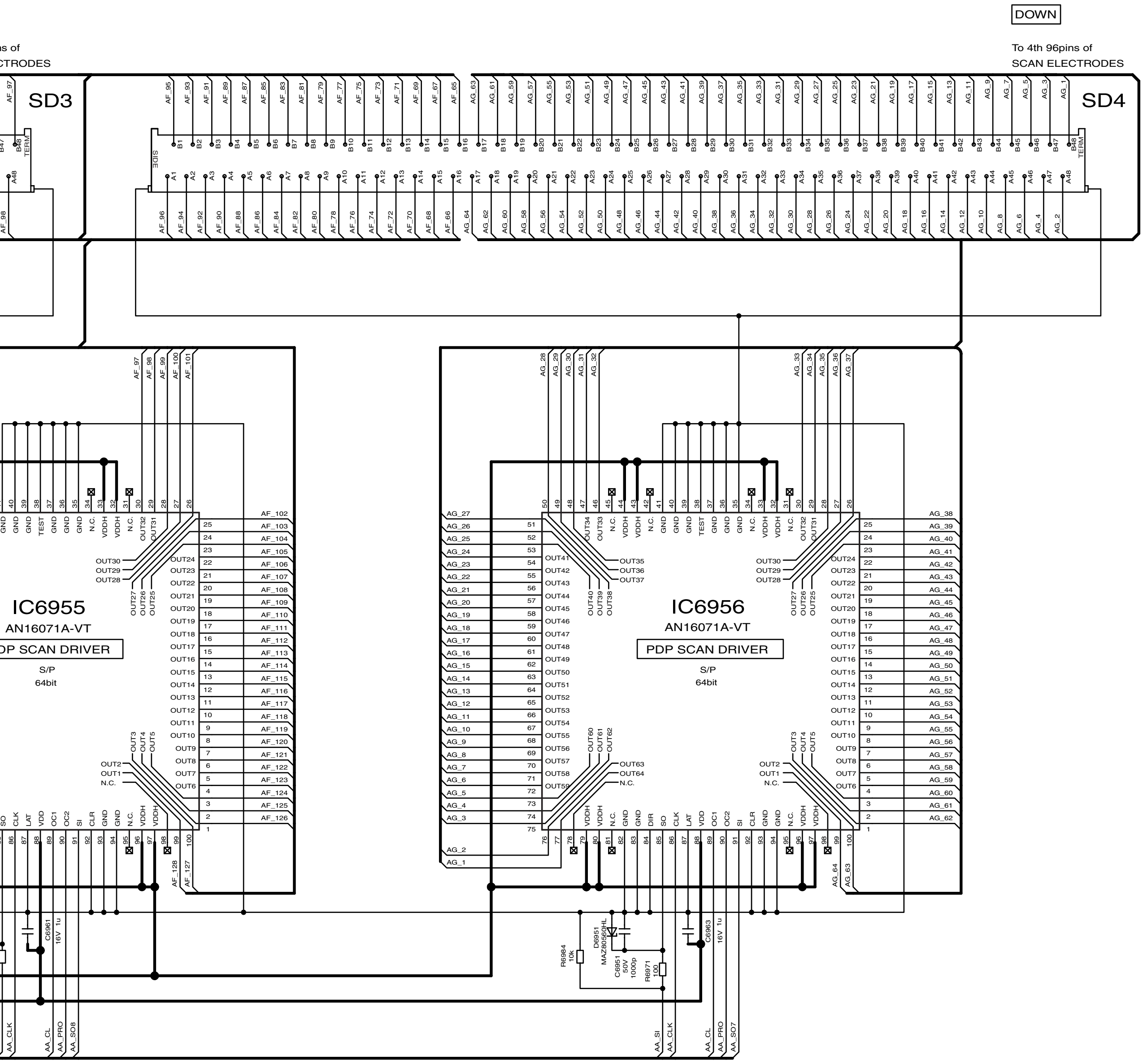

DOWN
To 2nd 96pins of
SCAN ELECTRODES
SD2
IC6952
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6953
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
C6965 50V 220p
R6955 220
C6955 16V 1u
C6966 50V 220p
R6959 220
C6957 16V 1u
D6953 B0ECHP000003
D6954 B0ECHP000003
C6984 250V 1u
C6985 250V 1u
D6952 MAZ80560HL
R6981 10k
R6983 10k
R6982 10k
AA_CL
AA_CLK
AA_PRO
Vf(High Voltage Floting GND)
VF5V
VF5V
Vf(High Voltage Floting GND)
80Pin)
TO
SC-BOARD
(SC42)

TH-50PV60E, TH-50PX60B
SD-Board (1 of 2) Schematic Diagram

5 6 7 8

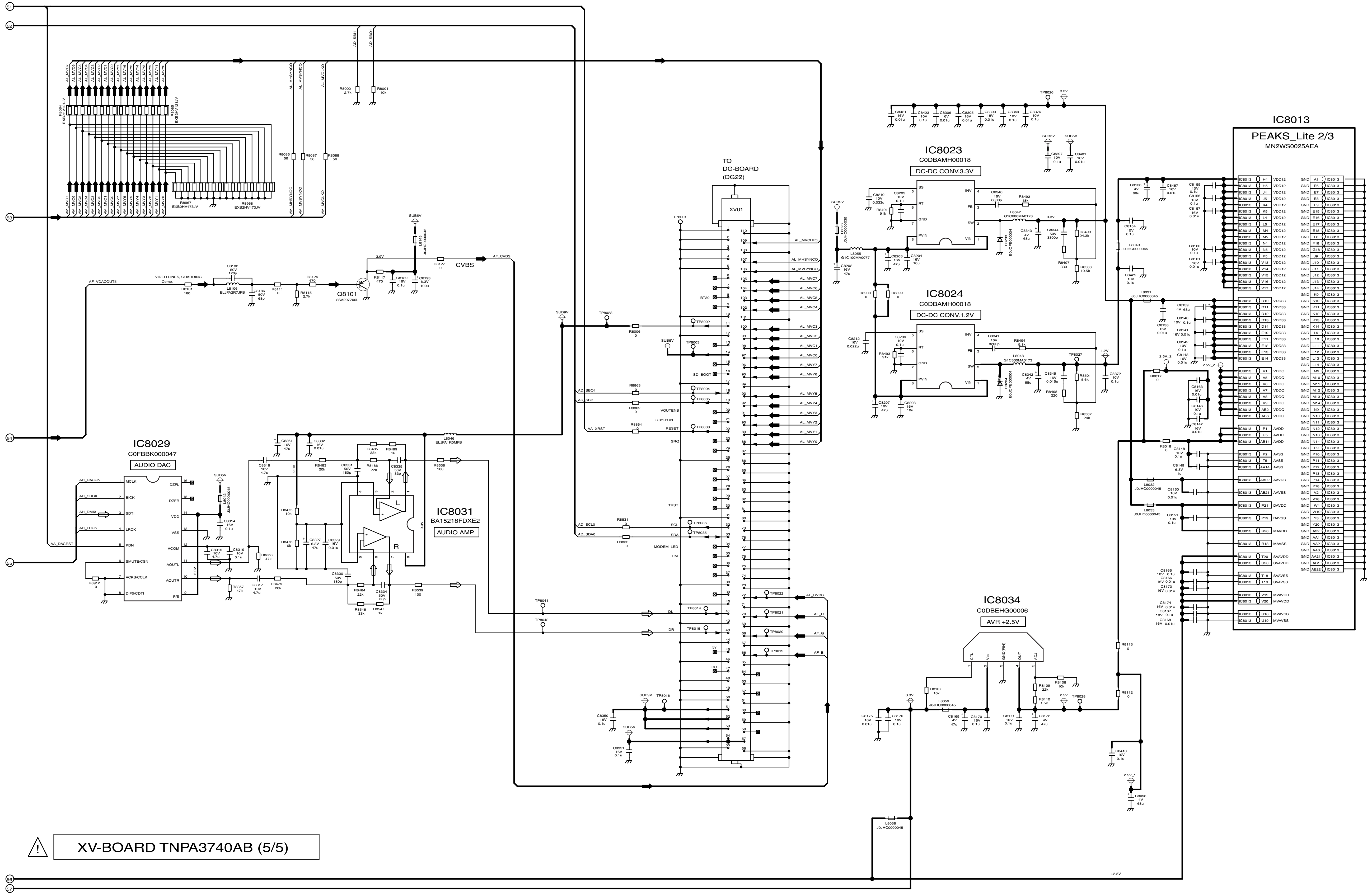
14.67. SD-Board (2 of 2) Schematic Diagram


SD-BOARD TXNSD1BETB (2/2)
To 3rd 96pins of
SCAN ELECTRODES
SD3
SIDE
TERM
IC6954
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6955
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vf5
Vf
R6985
220k
C6967
50V
220p
R6963
220
C6958
16V 1u
C6968
50V
220p
R6967
220
C6961
16V 1u
AA_SO8
AA_CLK
AA_CL
AA_PRO
AA_SO9
AA_SO7
AA_CLK
AA_CL
AA_PRO
AA_SO8
AA_SI
AA_CL
AA_CLK
AA_PRO
FSI
FCL
FCLK
PRO
R6973
22
R6972
22
R6974
22
C6981
50V
1000p
SD
46
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO
SC-BOARD
(SC46)
①
②
③
④
⑤
⑥


DOWN
...ns of
...CTRODES
To 4th 96pins of
SCAN ELECTRODES
SD3
SD4
IC6955
AN16071A-VT
...P SCAN DRIVER
S/P
64bit
IC6956
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
C6961
16V 1u
C6963
16V 1u
R6984
10k
D6951
MAZ8068DHL
C6951
50V
1000p
R6971
100
AA_CLK
AA_CL
AA_PRO
AA_SO8
AA_SI
AA_CLK
AA_CL
AA_PRO
AA_SO7

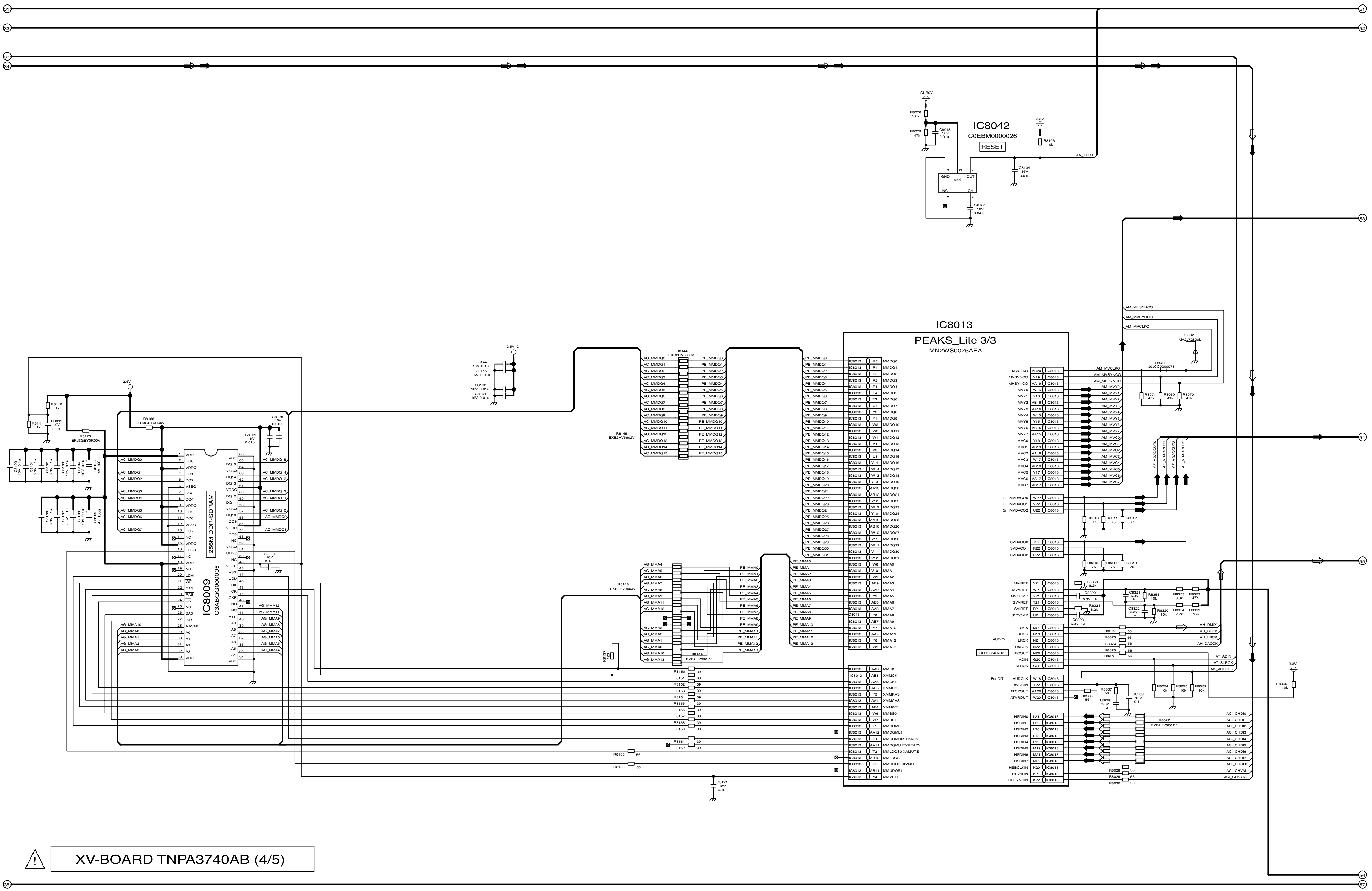
TH-50PV60E, TH-50PX60B
SD-Board (2 of 2) Schematic Diagram

12 13 14 15


IC8013
PEAKS_Lite 2/3
MN2WS0025AEA
IC8023
C0DBAMH00018
DC-DC CONV.3.3V
IC8024
C0DBAMH00018
DC-DC CONV.1.2V
IC8034
C0DBEHG00006
AVR +2.5V
IC8029
C0FBBK000047
AUDIO DAC
IC8031
BA15218FDXE2
AUDIO AMP
Q8101
2SA2077O0L
CVBS
AF_CVBS
AF_VDACOUT5
VIDEO LINES, GUARDING Comp.
TO
DG-BOARD
(DG22)
XV01
SUB9V
SUB5V
3.3V
1.2V
2.5V
+2.5V
AL_MVCLKO
AL_MHSYNCO
AL_MVSYNCO
AD_SBO1
AD_SBI1
AA_XRST
AD_SCL0
AD_SDA0
AH_DACCK
AH_SRCK
AH_DMIX
AH_LRCK
AA_DACRST
MCLK
BICK
SDTI
LRCK
PDN
SMUTE/CSN
ACKS/CCLK
DIF0/CDTI
DZFL
DZFR
VDD
VSS
VCOM
AOUTL
AOUTR
P/S
L
R
DL
DR
AF_R
AF_G
AF_B
VOUTENB
RESET
SRQ
TRST
SCL
SDA
MODEM_LED
RM
SD_BOOT
BT30
DY
DC
CTL
Vcc
GND(FIN)
OUT
ADJ
SS
INV
RT
FB
GND
SW
PVIN
VIN
VDD12
VDD33
VDDQ
AVDD
AVSS
AAVDD
AAVSS
DAVDD
DAVSS
MAVDD
MAVSS
SVAVDD
SVAVSS
MVAVDD
MVAVSS
51
52
53
54
55
56
57

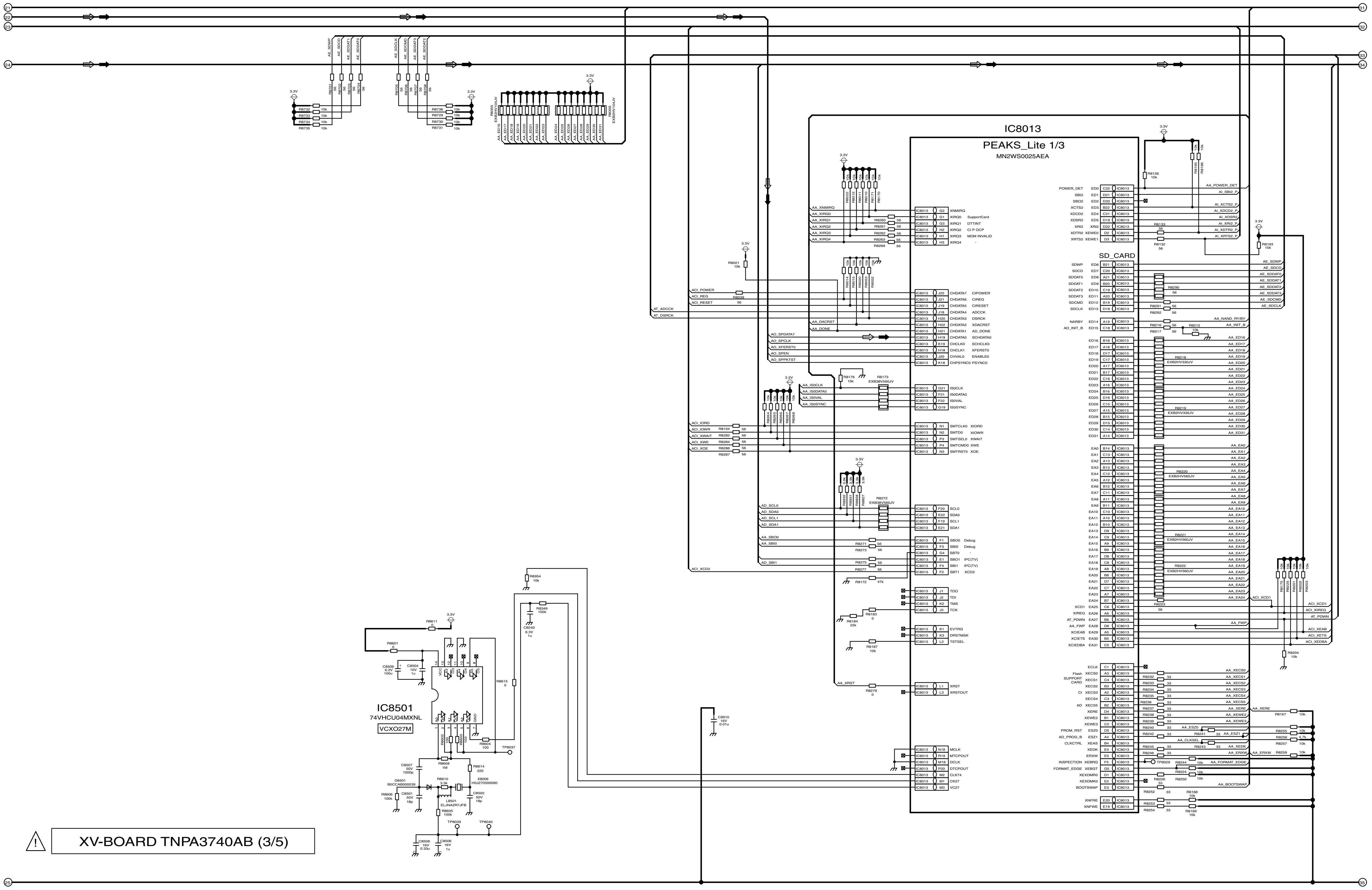
⚠ XV-BOARD TNPA3740AB (5/5)

TH-50PV60E, TH-50PX60B
XV-Board (5 of 5) Schematic Diagram


IC8042
C0EBM0000026
RESET
SUB9V
3.3V
AA_XRST
IC8013
PEAKS_Lite 3/3
MN2WS0025AEA
IC8009
C3ABQG000095
256M DDR-SDRAM
2.5V_1
2.5V_2
R8144
EXB2HV560JV
R8145
EXB2HV560JV
R8148
EXB2HV390JV
R8149
EXB2HV390JV
R8188
ERJ3GEY0R00V
R8123
ERJ3GEY0R00V
D8002
MA2J72800L
L8037
J0JCC0000078
AM_MHSYNCO
AM_MVSYNCO
AM_MVCLKO
AF_VDACOUT0
AF_VDACOUT1
AF_VDACOUT2
AF_VDACOUT3
AUDIO
SLRCK:48kHz
For DIT
AH_DMIX
AH_SRCK
AH_LRCK
AH_DACCK
AT_ADIN
AT_SLRCK
AK_AUDCLK
R8027
EXB2HV560JV
ACI_CHDI0
ACI_CHDI1
ACI_CHDI2
ACI_CHDI3
ACI_CHDI4
ACI_CHDI5
ACI_CHDI6
ACI_CHDI7
ACI_CHCLK
ACI_CHVAL
ACI_CHSYNC
XV-BOARD TNPA3740AB (4/5)

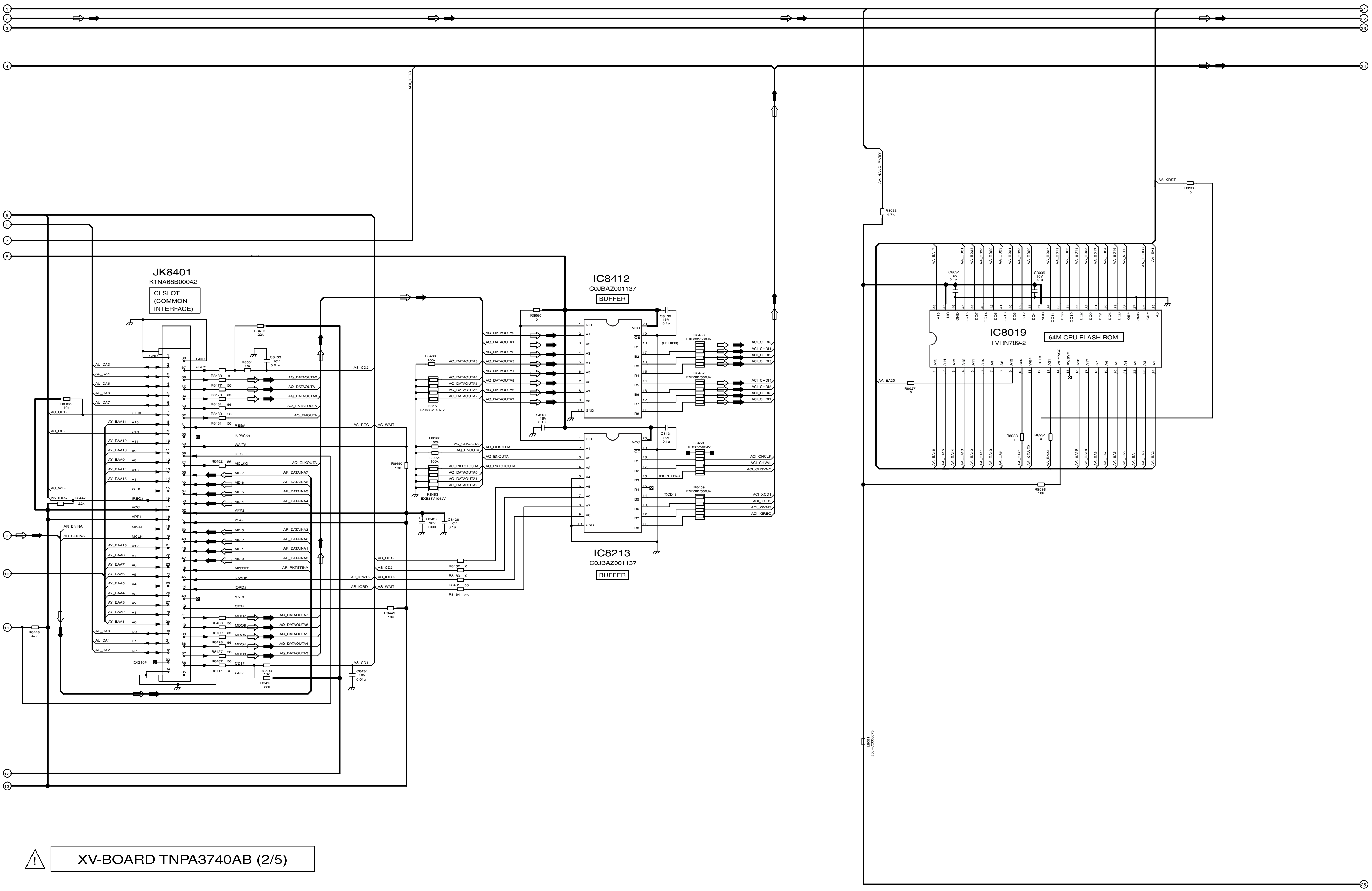
TH-50PV60E, TH-50PX60B
XV-Board (4 of 5) Schematic Diagram

TH-50PV60E, TH-50PX60B
XV-Board (4 of 5) Schematic Diagram


IC8013
PEAKS_Lite 1/3
MN2WS0025AEA
SD_CARD
IC8501
74VHCU04MXNL
VCXO27M
3.3V
POWER_DET
AA_POWER_DET
AA_XNMIRQ
AA_XIRQ0
AA_XIRQ1
AA_XIRQ2
AA_XIRQ3
AA_XIRQ4
ACI_POWER
ACI_REG
ACI_RESET
AT_ADCCK
AT_DSRCK
AA_DACRST
AA_DONE
AO_SPDATA7
AO_SPCLK
AO_XFERST0
AO_SPEN
AO_SPPKTST
AA_ISOCLK
AA_ISODATA0
AA_ISOVAL
AA_ISOSYNC
ACI_IORD
ACI_IOWR
ACI_XWAIT
ACI_XWE
ACI_XOE
AD_SCL0
AD_SDA0
AD_SCL1
AD_SDA1
AA_SBO0
AA_SBI0
AD_SBI1
ACI_XCD2
AA_XRST
AE_SDWP
AE_SDCD
AE_SDAT0
AE_SDAT1
AE_SDAT2
AE_SDAT3
AE_SDCMD
AE_SDCLK
AA_NAND_RY/BY
AA_INIT_B
ACI_XCD1
ACI_XIREQ
AT_PDWN
AA_FWP
ACI_XEAB
ACI_XEIS
ACI_XEDBA
AA_XERE
AA_ESZ0
AA_ESZ1
AA_CLKSEL
AA_XEDK
AA_ERXW
AA_FORMAT_EDGE
AA_BOOTSWAP
EXB2HV330JV
EXB2HV560JV
EXB38V560JV
TP8037
TP8039
TP8040
X8006
H0J270500090
L8501
ELJNA2R7JFB
D8501
B0CCAB000039
21
22
23
24
25
31
32
33
34
35

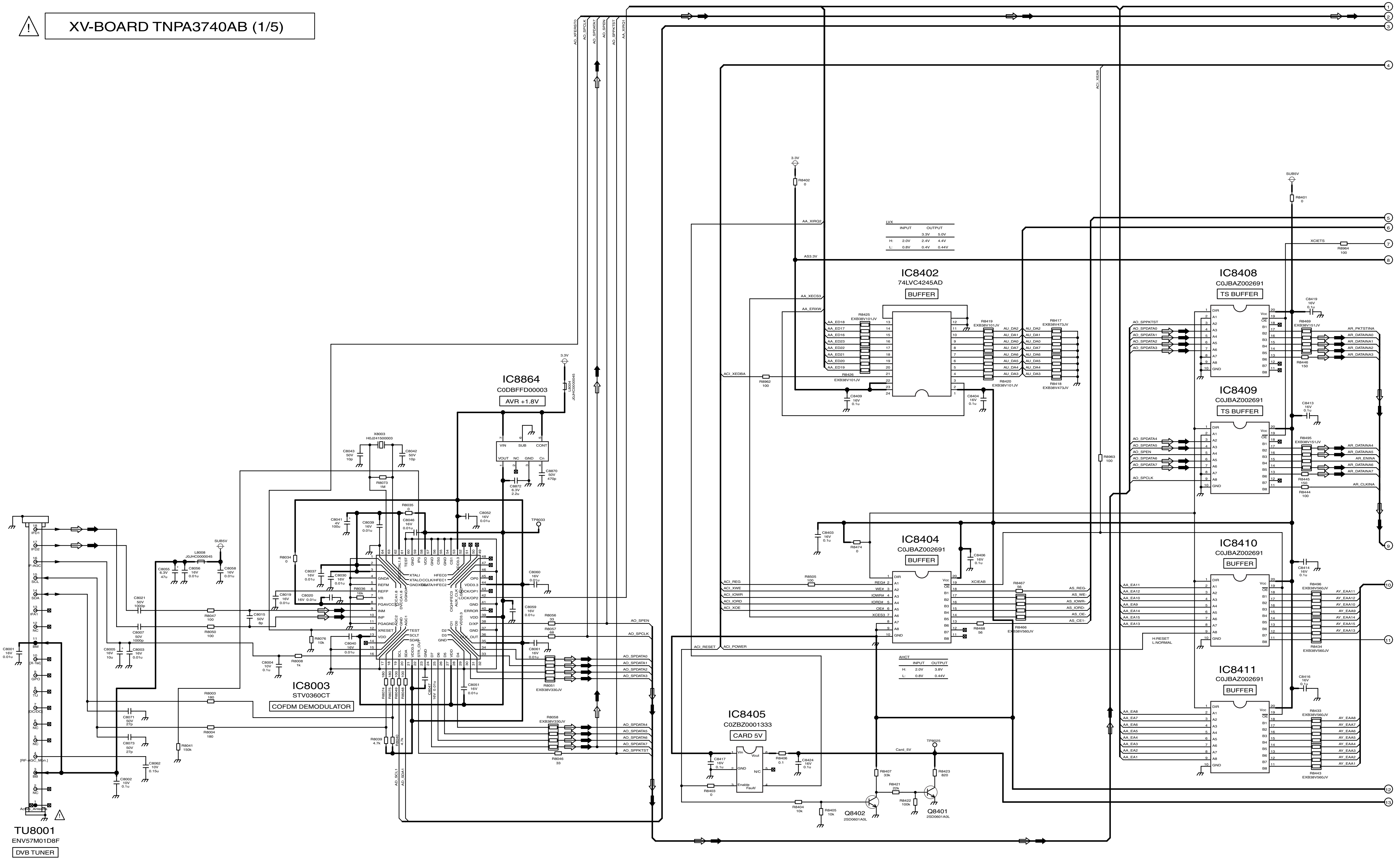
XV-BOARD TNPA3740AB (3/5)

TH-50PV60E, TH-50PX60B
XV-Board (3 of 5) Schematic Diagram


JK8401
K1NA68B00042
CI SLOT
(COMMON
INTERFACE)
IC8412
C0JBAZ001137
BUFFER
IC8213
C0JBAZ001137
BUFFER
IC8019
TVRN789-2
64M CPU FLASH ROM

XV-BOARD TNPA3740AB (2/5)

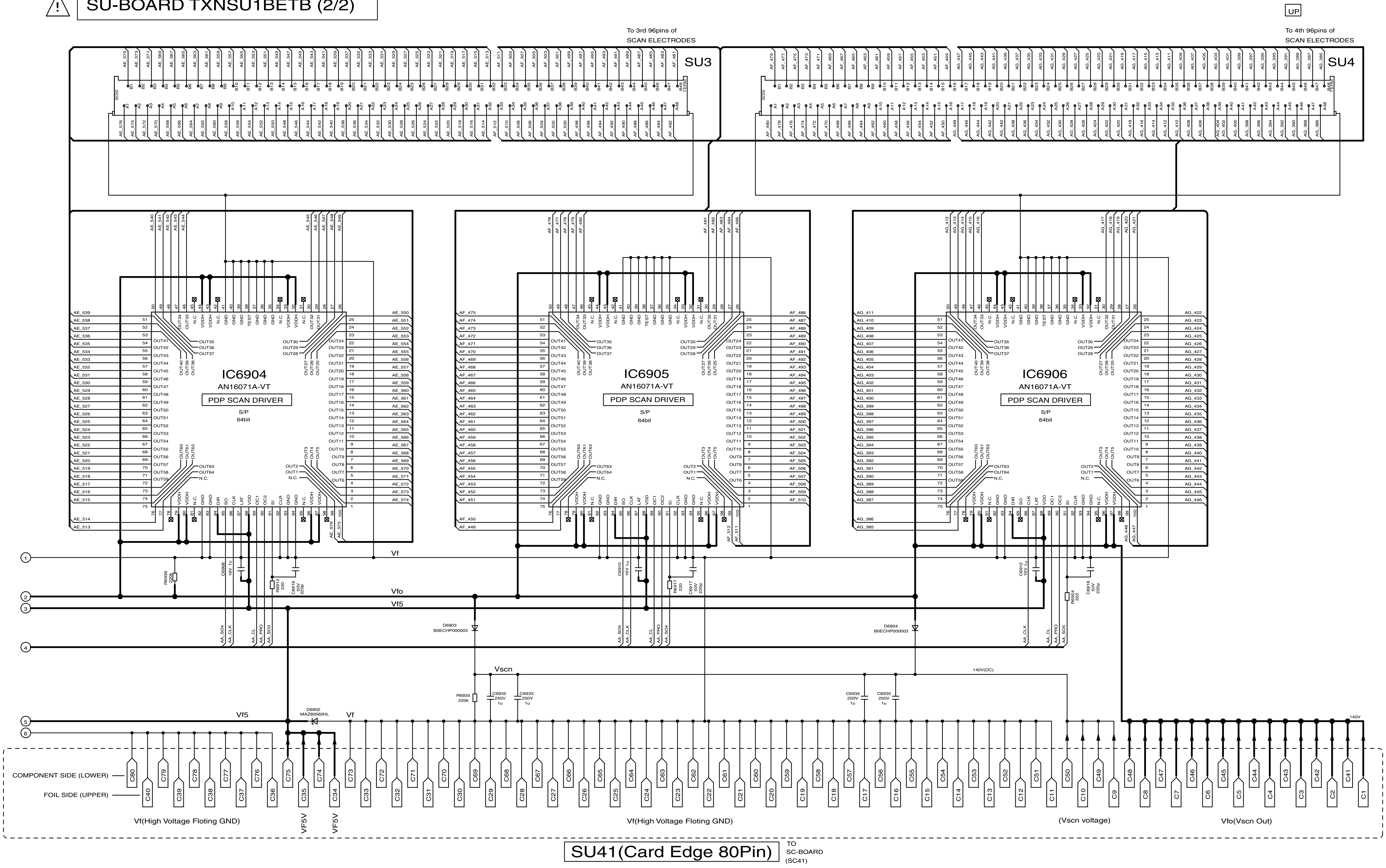
XV-BOARD TNPA3740AB (1/5)


IC8864
C0DBFFD00003
AVR +1.8V
IC8003
STV0360CT
COFDM DEMODULATOR
TU8001
ENV57M01D8F
DVB TUNER
IC8402
74LVC4245AD
BUFFER
IC8404
C0JBAZ002691
BUFFER
IC8405
C0ZBZ0001333
CARD 5V
IC8408
C0JBAZ002691
TS BUFFER
IC8409
C0JBAZ002691
TS BUFFER
IC8410
C0JBAZ002691
BUFFER
IC8411
C0JBAZ002691
BUFFER
Q8402
2SD0601A0L
Q8401
2SD0601A0L
X8003
H0J241500003
SUB5V
3.3V
AO_SPEN
AO_SPCLK
AO_SPDATA0
AO_SPDATA1
AO_SPDATA2
AO_SPDATA3
AO_SPDATA4
AO_SPDATA5
AO_SPDATA6
AO_SPDATA7
AO_SPPKTST
AR_PKTSTINA
AR_DATAINA0
AR_DATAINA1
AR_DATAINA2
AR_DATAINA3
AR_DATAINA4
AR_DATAINA5
AR_ENINA
AR_DATAINA6
AR_DATAINA7
AR_CLKINA
ACI_XEDBA
ACI_REG
ACI_XWE
ACI_IOWR
ACI_IORD
ACI_XOE
ACI_RESET
ACI_POWER
AA_XIRQ2
AS3.3V
AA_XECS3
AA_ERXW
XCIETS
Card_5V
TP8025
TP8033
LVX
INPUT
OUTPUT
H:
L:
AHCT
1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F

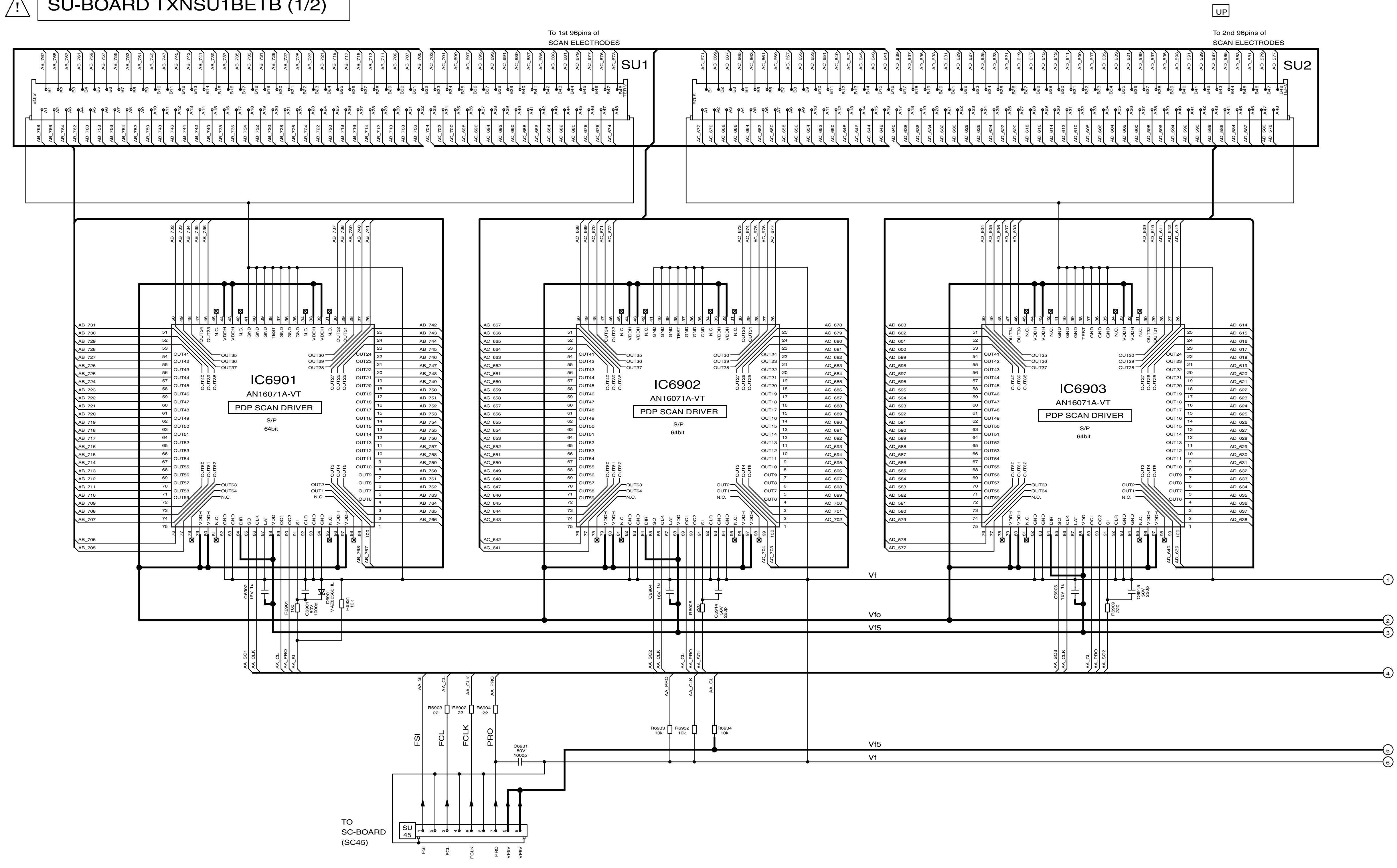
TH-50PV60E, TH-50PX60B
XV-Board (1 of 5) Schematic Diagram

TH-50PV60E, TH-50PX60B
XV-Board (1 of 5) Schematic Diagram

SU-BOARD TXNSU1BETB (2/2)

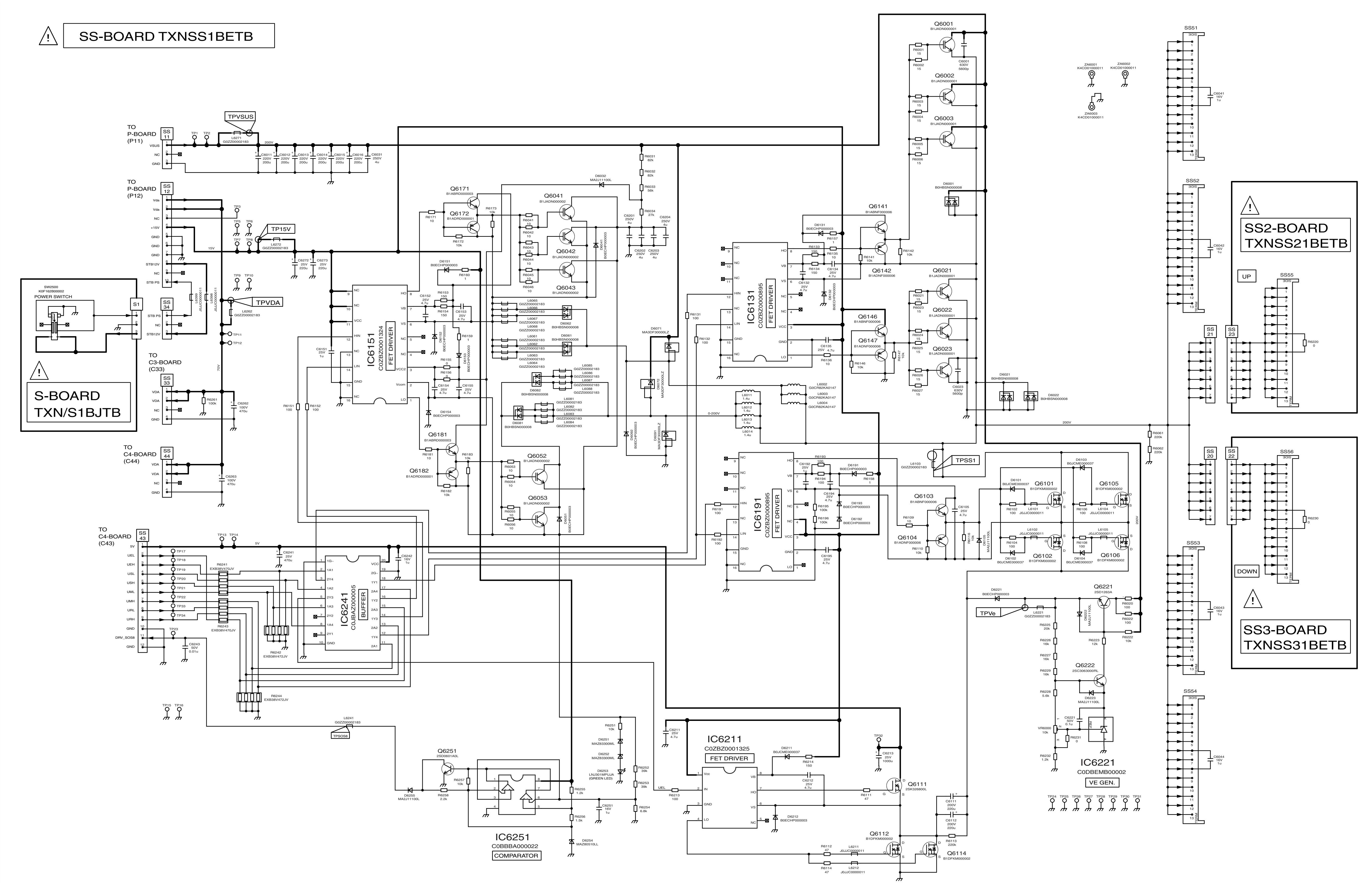

UP
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES
SU3
SU4
IC6904
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6905
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6906
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vscn
140V(DC)
140V
D6903
B0ECHP000003
D6904
B0ECHP000003
D6902
MAZ80560HL
R6935
220k
C6932
250V
1u
C6933
250V
1u
C6934
250V
1u
C6935
250V
1u
C6908
16V 1u
C6910
16V 1u
C6912
16V 1u
C6916
50V
220p
C6917
50V
220p
C6918
50V
220p
R6936
220k
R6913
220
R6917
220
R6924
220
AA_SO4
AA_CLK
AA_CL
AA_PRO
AA_SO3
AA_SO5
AA_SO6
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
Vf(High Voltage Floting GND)
VF5V
VF5V
Vf(High Voltage Floting GND)
(Vscn voltage)
Vfo(Vscn Out)
SU41(Card Edge 80Pin)
TO SC-BOARD (SC41)
1
2
3
4
5
6

SU-BOARD TXNSU1BETB (1/2)


UP
To 1st 96pins of
SCAN ELECTRODES
To 2nd 96pins of
SCAN ELECTRODES
SU1
SU2
IC6901
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6902
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6903
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vf5
Vf
FSI
FCL
FCLK
PRO
R6903 22
R6902 22
R6904 22
C6931 50V 1000p
R6933 10k
R6932 10k
R6934 10k
C6902 16V 1u
C6901 50V 1000p
D6901 MA2S056HL
R6901 100
R6931 10k
C6904 16V 1u
R6905 220
C6914 50V 220p
C6906 16V 1u
R6906 220
C6915 50V 220p
TO
SC-BOARD
(SC45)
SU 45
FSI
FCL
FCLK
PRO
VF5V
VF5V
A
B
C
D
E
1
2
3
4
5
6
7
8

TH-50PV60E, TH-50PX60B
SU-Board (1 of 2) Schematic Diagram

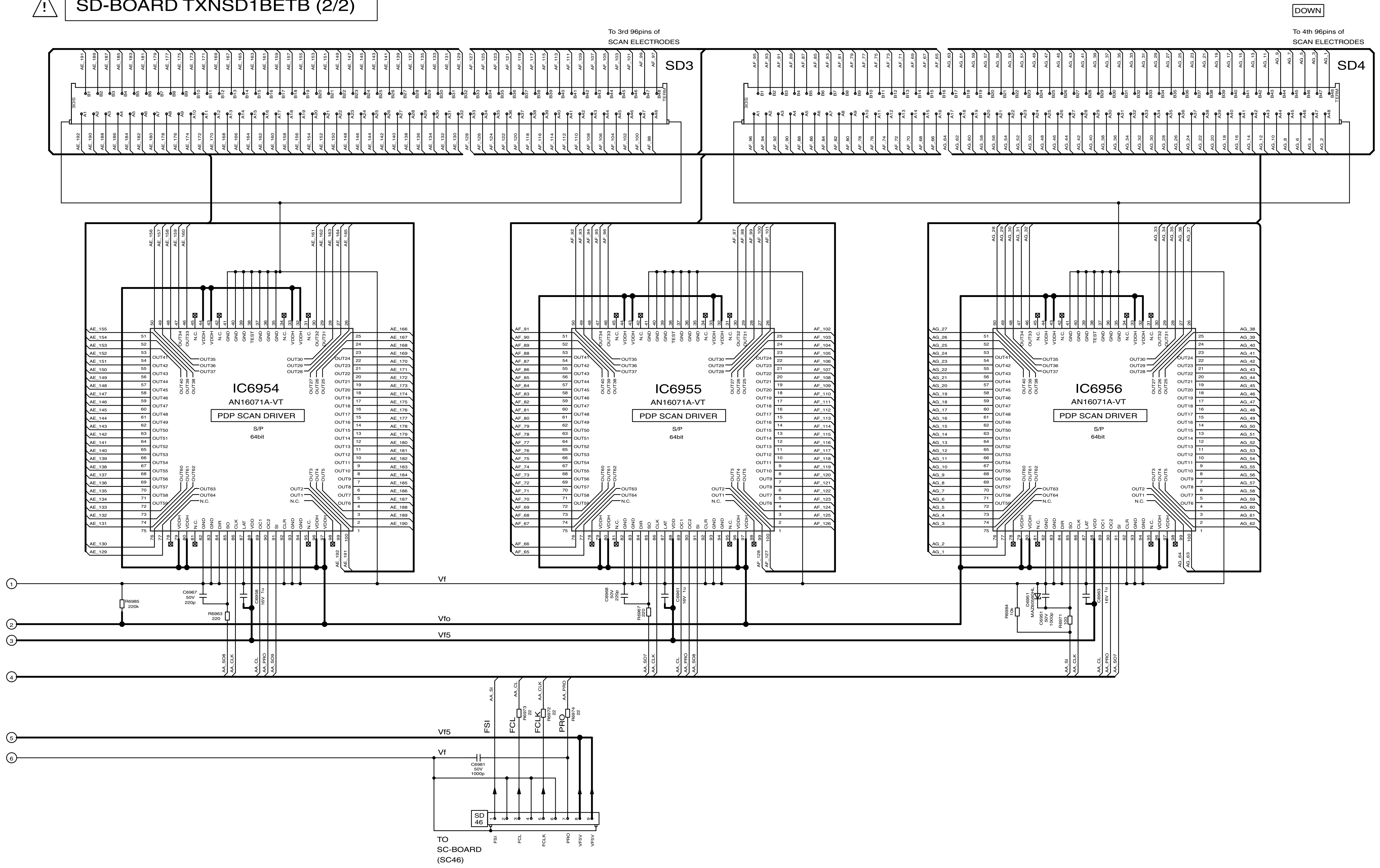
TH-50PV60E, TH-50PX60B
SU-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
SS-BOARD TXNSS1BETB
S-BOARD TXN/S1BJTB
SS2-BOARD TXNSS21BETB
SS3-BOARD TXNSS31BETB
TO P-BOARD (P11)
TO P-BOARD (P12)
TO C3-BOARD (C33)
TO C4-BOARD (C44)
TO C4-BOARD (C43)
SW2500 K0F162B00002 POWER SWITCH
TPVSUS
TP15V
TPVDA
TPSS1
TPVe
TPSOS8
IC6151 C0ZBZ0001324 FET DRIVER
IC6131 C0ZBZ0000895 FET DRIVER
IC6191 C0ZBZ0000895 FET DRIVER
IC6241 C0JBAZ000005 BUFFER
IC6211 C0ZBZ0001325 FET DRIVER
IC6251 C0BBBA000022 COMPARATOR
IC6221 C0DBEMB00002 VE GEN.
Q6001
Q6002
Q6003
Q6021
Q6022
Q6023
Q6041
Q6042
Q6043
Q6052
Q6053
Q6101
Q6102
Q6103
Q6104
Q6105
Q6106
Q6111
Q6112
Q6114
Q6141
Q6142
Q6146
Q6147
Q6171
Q6172
Q6181
Q6182
Q6221
Q6222
Q6251
SS51
SS52
SS53
SS54
SS55
SS56
UP
DOWN
200V
0-200V
15V
5V
VSUS
Vda
STB12V
STB PS
UEL
UEH
USL
USH
UML
UMH
URL
URH
DRV_SOS8
GND
NC

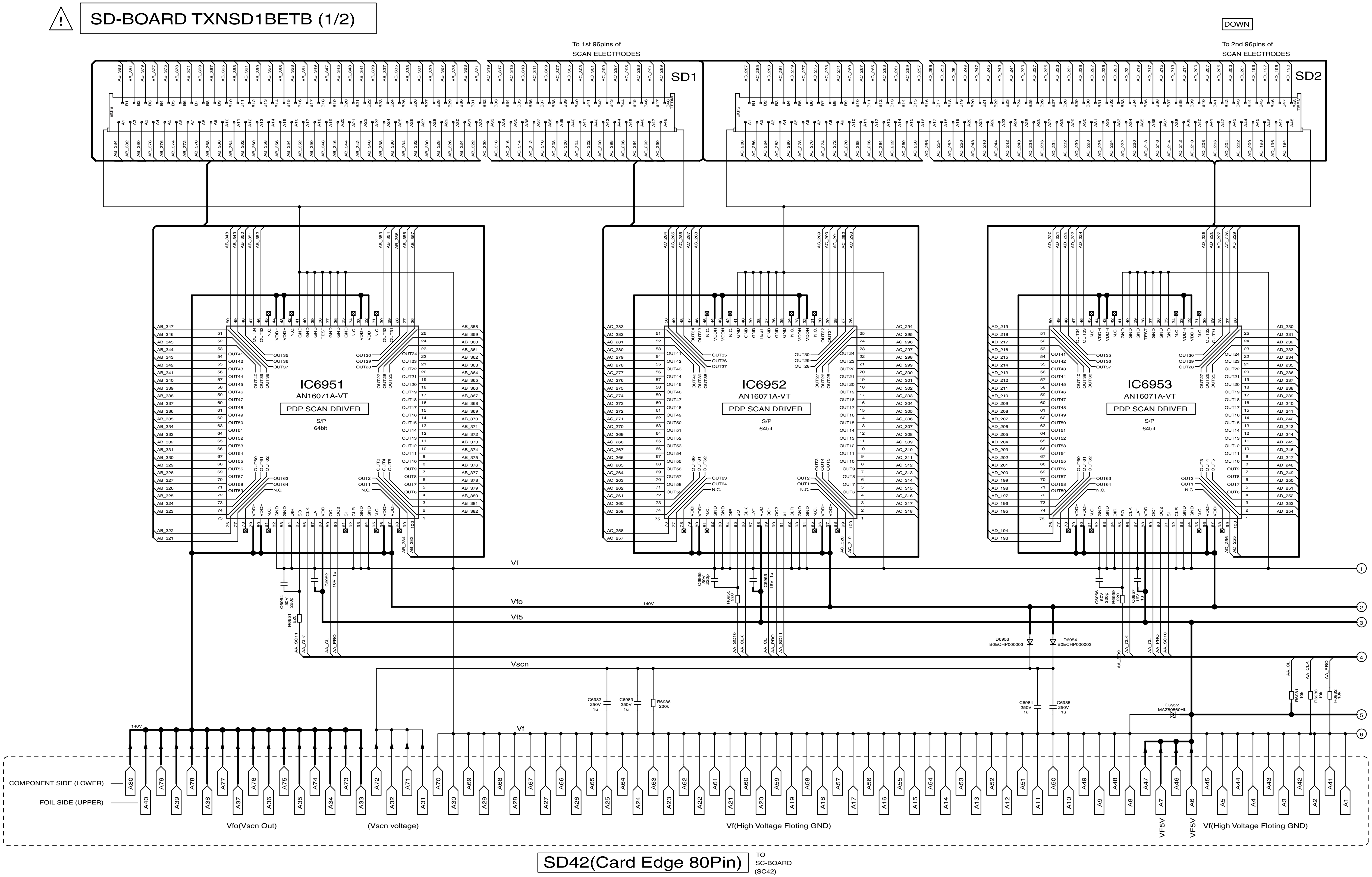
TH-50PV60E, TH-50PX60B
SS, S, SS2 and SS3-Board Schematic Diagram

TH-50PV60E, TH-50PX60B
SS, S, SS2 and SS3-Board Schematic Diagram

SD-BOARD TXNSD1BETB (2/2)


DOWN
To 3rd 96pins of
SCAN ELECTRODES
SD3
To 4th 96pins of
SCAN ELECTRODES
SD4
IC6954
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6955
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6956
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vf5
Vf
C6967 50V 220p
R6963 220
C6958 16V 1u
R6985 220k
C6968 50V 220p
R6967 220
C6961 16V 1u
R6984 10k
D6951 MA2S0640HL
C6951 50V 1000p
R6971 100
C6963 16V 1u
C6981 50V 1000p
R6973 22
R6972 22
R6974 22
AA_SO8
AA_CLK
AA_CL
AA_PRO
AA_SO9
AA_SO7
AA_SI
FSI
FCL
FCLK
PRO
SD46
VF5V
TO
SC-BOARD
(SC46)

SD-BOARD TXNSD1BETB (1/2)


DOWN
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES
SD1
SD2
IC6951
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6952
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6953
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
Vscn
140V
C6964 50V 220p
R6951 220
C6952 16V 1u
C6965 50V 220p
R6955 220
C6955 16V 1u
C6966 50V 220p
R6959 220
C6957 16V 1u
D6953 B0ECHP000003
D6954 B0ECHP000003
D6952 MAZ80560HL
C6982 250V 1u
C6983 250V 1u
R6986 220k
C6984 250V 1u
C6985 250V 1u
R6981 10k
R6983 10k
R6982 10k
AA_SO11
AA_CLK
AA_CL
AA_PRO
AA_SO10
AA_SO9
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
Vfo(Vscn Out)
(Vscn voltage)
Vf(High Voltage Floting GND)
VF5V
VF5V
Vf(High Voltage Floting GND)
①
②
③
④
⑤
⑥

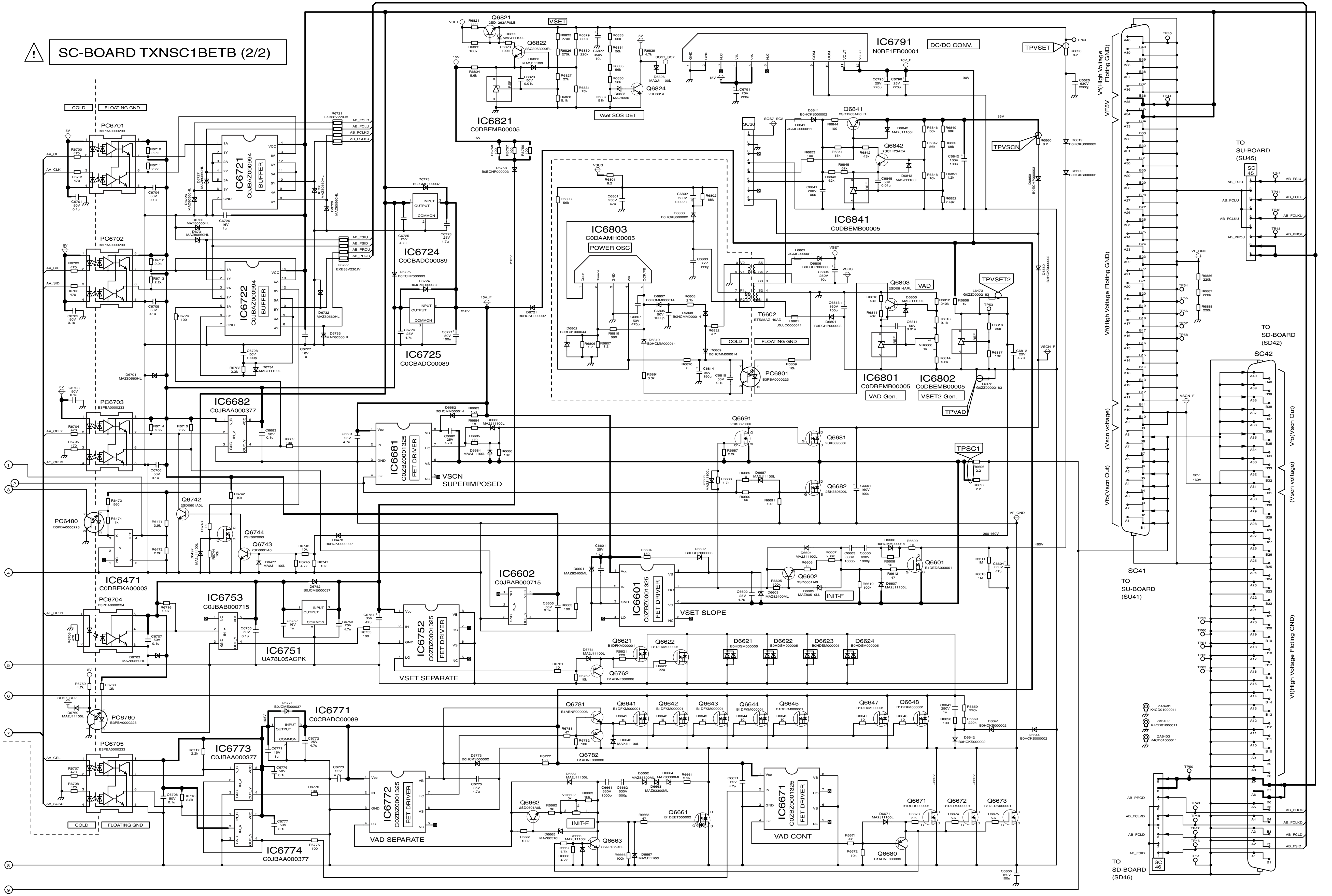
SD42(Card Edge 80Pin)

TO
SC-BOARD
(SC42)

TH-50PV60E, TH-50PX60B
SD-Board (1 of 2) Schematic Diagram

TH-50PV60E, TH-50PX60B
SD-Board (1 of 2) Schematic Diagram

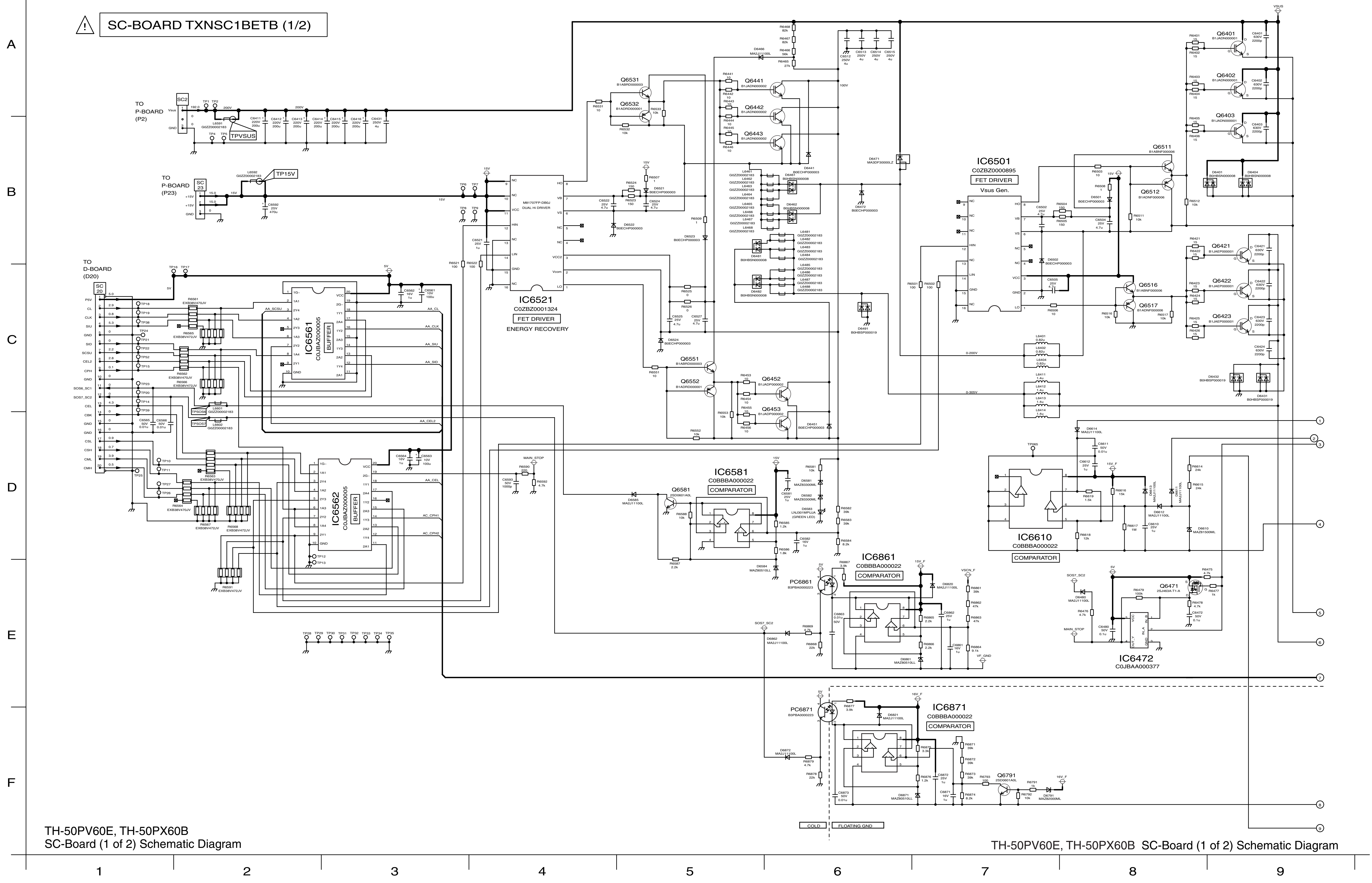
SC-BOARD TXNSC1BETB (2/2)


COLD
FLOATING GND
PC6701
PC6702
PC6703
PC6704
PC6705
PC6480
PC6760
PC6801
IC6721
C0JBAZ000994
BUFFER
IC6722
C0JBAZ000994
BUFFER
IC6682
C0JBAA000377
IC6681
C0ZBZ0001325
FET DRIVER
VSCN SUPERIMPOSED
IC6724
C0CBADC00089
IC6725
C0CBADC00089
IC6821
C0DBEMB00005
Q6821
Q6822
Q6824
VSET
Vset SOS DET
IC6791
N0BF1FB00001
DC/DC CONV.
TPVSET
TPVSCN
SC30
IC6841
C0DBEMB00005
Q6841
Q6842
IC6803
C0DAAMH00005
POWER OSC
T6602
ETS25AZ149AD
Q6803
VAD
TPVSET2
IC6801
C0DBEMB00005
VAD Gen.
IC6802
C0DBEMB00005
VSET2 Gen.
TPVAD
Q6691
Q6681
Q6682
TPSC1
IC6471
C0DBEKA00003
Q6742
Q6743
Q6744
IC6753
C0JBAB000715
IC6751
UA78L05ACPK
IC6752
C0ZBZ0001325
FET DRIVER
VSET SEPARATE
IC6602
C0JBAB000715
IC6601
C0ZBZ0001325
FET DRIVER
VSET SLOPE
Q6602
Q6601
INIT-F
Q6621
Q6622
D6621
D6622
D6623
D6624
Q6762
IC6771
C0CBADC00089
IC6773
C0JBAA000377
IC6774
C0JBAA000377
IC6772
C0ZBZ0001325
FET DRIVER
VAD SEPARATE
Q6781
Q6782
Q6641
Q6642
Q6643
Q6644
Q6645
Q6647
Q6648
Q6662
Q6663
Q6661
IC6671
C0ZBZ0001325
FET DRIVER
VAD CONT
Q6671
Q6672
Q6673
Q6680
TO SU-BOARD (SU45)
SC45
TO SD-BOARD (SD42)
SC42
SC41
TO SU-BOARD (SU41)
TO SD-BOARD (SD46)
SC46
Vf(High Voltage Floting GND)
VF5V
Vfo(Vscn Out)
(Vscn voltage)
Vf(High Voltage Floting GND)
AB_FSIU
AB_FCLU
AB_FCLKU
AB_PROU
AB_PROD
AB_FCLKD
AB_FCLD
AB_FSID
1
2
3
4
5
6
7
8
9

TH-50PV60E, TH-50PX60B SC-Board (2 of 2) Schematic Diagram

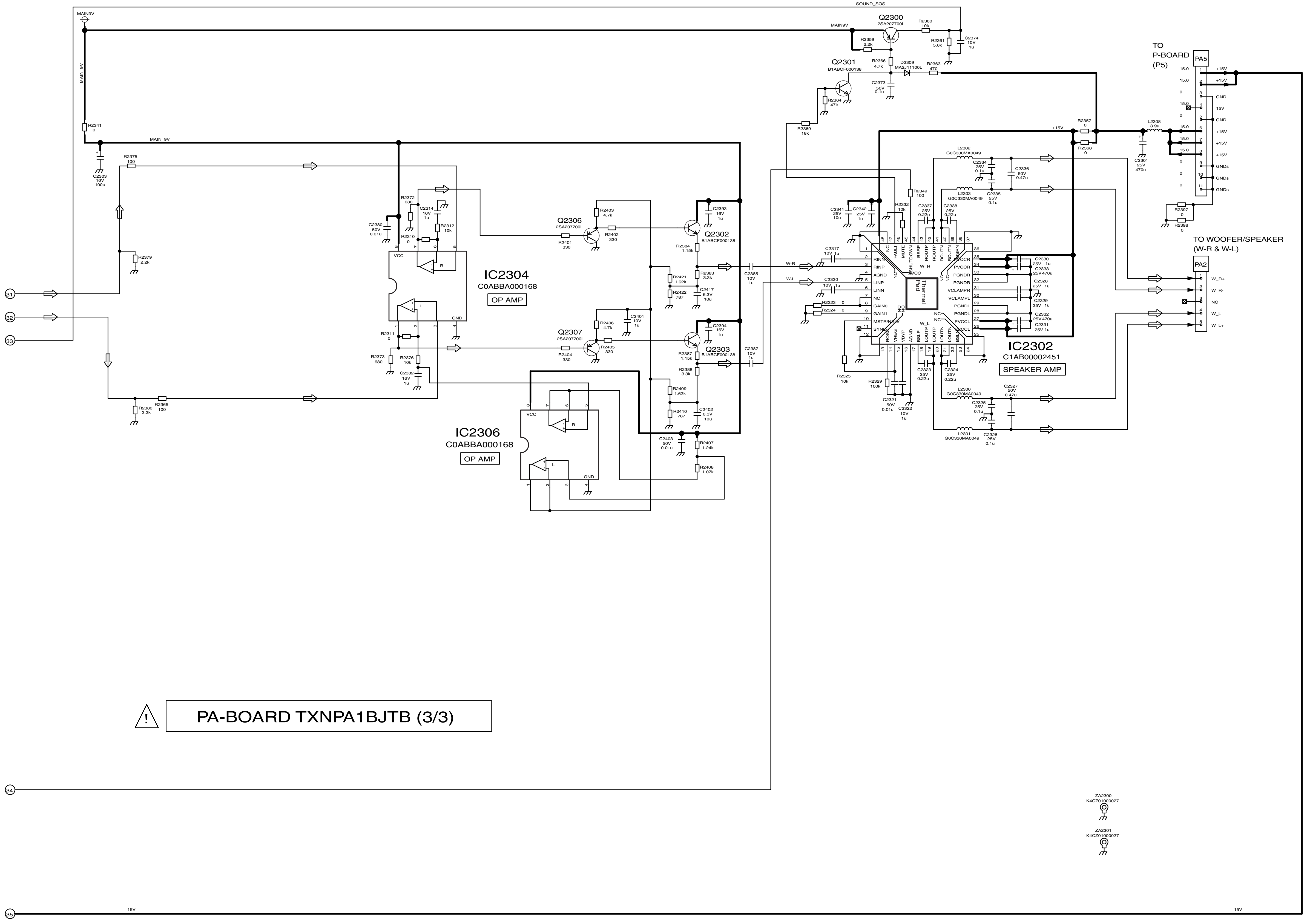
TH-50PV60E, TH-50PX60B SC-Board (2 of 2) Schematic Diagram

⚠ SC-BOARD TXNSC1BETB (1/2)

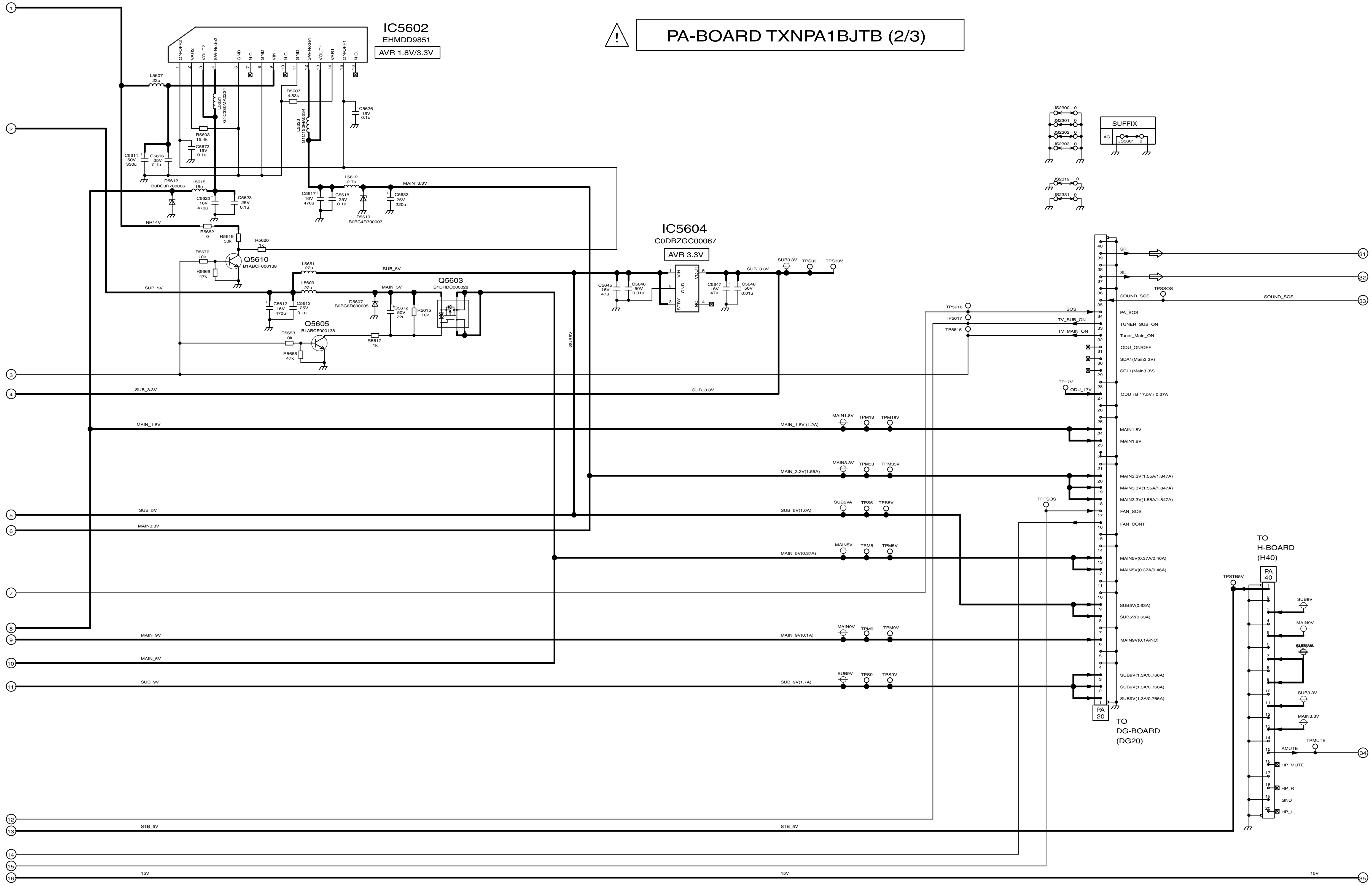

A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO P-BOARD (P2)
SC2
Vsus
GND
TPVSUS
L6591 G0ZZ00002183
200V
C6411 220V 200u
C6412 220V 200u
C6413 220V 200u
C6414 220V 200u
C6415 220V 200u
C6416 220V 200u
C6431 250V 4u
TO P-BOARD (P23)
SC23
+15V
GND
L6592 G0ZZ00002183
TP15V
C6592 25V 470u
TO D-BOARD (D20)
SC20
P5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
SOS6_SC1
SOS7_SC2
CEL
CBK
CSL
CSH
CML
CMH
IC6561 C0JBAZ000005 BUFFER
IC6562 C0JBAZ000005 BUFFER
AA_SCSU
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
AA_CEL
AC_CPH1
AC_CPH2
TPSOS6
TPSOS7
L6601 G0ZZ00002183
L6602 G0ZZ00002183
TP28 TP29 TP30 TP31 TP32 TP33 TP34 TP35
IC6521 C0ZBZ0001324 FET DRIVER ENERGY RECOVERY
M81707FP-DB0J DUAL Hi DRIVER
Q6531 B1ABRD000003
Q6532 B1ADRD000001
Q6441 B1JADN000002
Q6442 B1JADN000002
Q6443 B1JADN000002
Q6551 B1ABRD000003
Q6552 B1ADRD000001
Q6452 B1JADP000002
Q6453 B1JADP000002
D6471 MA3DF30000LZ
D6491 B0HBSP000019
100V
0-200V
0-305V
VSUS
IC6501 C0ZBZ0000895 FET DRIVER Vsus Gen.
Q6511 B1ABNF000006
Q6512 B1ADNF000006
Q6516 B1ABNF000006
Q6517 B1ADNF000006
Q6401 B1JADN000001
Q6402 B1JADN000001
Q6403 B1JADN000001
Q6421 B1JAEP000001
Q6422 B1JAEP000001
Q6423 B1JAEP000001
D6401 B0HBSN000008
D6404 B0HBSN000008
D6432 B0HBSP000019
D6431 B0HBSP000019
L6401 0.82u
L6402 0.82u
L6403 0.82u
L6404 0.82u
L6411 1.4u
L6412 1.4u
L6413 1.4u
L6414 1.4u
IC6581 C0BBBA000022 COMPARATOR
Q6581 2SD0601A0L
D6583 LNJ301MPUJA (GREEN LED)
MAIN_STOP
IC6610 C0BBBA000022 COMPARATOR
IC6861 C0BBBA000022 COMPARATOR
PC6861 B3PBA0000223
VSCN_F
VF_GND
SOS7_SC2
IC6472 C0JBAA000377
Q6471 2SJ463A-T1-A
IC6871 C0BBBA000022 COMPARATOR
PC6871 B3PBA0000223
Q6791 2SD0601A0L
D6791 MAZ82000ML
16V_F
15V_F
COLD
FLOATING GND

TH-50PV60E, TH-50PX60B
SC-Board (1 of 2) Schematic Diagram

TH-50PV60E, TH-50PX60B SC-Board (1 of 2) Schematic Diagram


SOUND_SOS
MAIN9V
Q2300
2SA207700L
R2360 10k
C2374 10V 1u
R2359 2.2k
R2361 5.6k
Q2301
B1ABCF000138
R2366 4.7k
D2309 MA2J11100L
R2363 470
C2373 50V 0.1u
R2364 47k
R2369 18k
MAIN_9V
R2341 0
C2303 16V 100u
R2375 100
R2379 2.2k
R2380 2.2k
R2365 100
IC2304
C0ABBA000168
OP AMP
R2372 680
C2314 16V 1u
R2312 10k
R2310 0
C2380 50V 0.01u
VCC
GND
R2311 0
R2373 680
R2376 10k
C2382 16V 1u
Q2306
2SA207700L
R2401 330
R2403 4.7k
R2402 330
Q2302
B1ABCF000138
C2393 16V 1u
R2384 1.15k
R2421 1.62k
R2422 787
R2383 3.3k
C2417 6.3V 10u
C2385 10V 1u
Q2307
2SA207700L
R2404 330
R2406 4.7k
R2405 330
C2401 10V 1u
Q2303
B1ABCF000138
C2394 16V 1u
R2387 1.15k
R2388 3.3k
R2409 1.62k
R2410 787
C2402 6.3V 10u
C2387 10V 1u
C2403 50V 0.01u
R2407 1.24k
R2408 1.07k
IC2306
C0ABBA000168
OP AMP
W-R
W-L
C2317 10V 1u
C2320 10V 1u
R2323 0
R2324 0
C2341 25V 10u
C2342 25V 1u
R2332 10k
R2349 100
C2337 25V 0.22u
C2338 25V 0.22u
L2302 G0C330MA0049
C2334 25V 0.1u
C2336 50V 0.47u
L2303 G0C330MA0049
C2335 25V 0.1u
Thermal Pad
RINN
RINP
AGND
LINP
LINN
NC
GAIN0
GAIN1
MSTR/SLV
SYNC
FAULT
MUTE
SHUTDOWN
BSRP
ROUTP
ROUTN
BSRN
PVCCR
PGNDR
VCLAMPR
VCLAMPL
PGNDL
PVCCL
ROSC
VREG
VBYP
BSLP
LOUTP
LOUTN
BSLN
W_R
W_L
C2330 25V 1u
C2333 25V 470u
C2328 25V 1u
C2329 25V 1u
C2332 25V 470u
C2331 25V 1u
IC2302
C1AB00002451
SPEAKER AMP
R2325 10k
R2329 100k
C2321 50V 0.01u
C2322 10V 1u
C2323 25V 0.22u
C2324 25V 0.22u
L2300 G0C330MA0049
C2327 50V 0.47u
C2325 25V 0.1u
L2301 G0C330MA0049
C2326 25V 0.1u
+15V
R2357 0
R2368 0
L2308 3.9u
C2301 25V 470u
TO
P-BOARD
(P5)
PA5
+15V
GND
15V
GNDs
R2397 0
R2398 0
TO WOOFER/SPEAKER
(W-R & W-L)
PA2
W_R+
W_R-
NC
W_L-
W_L+
ZA2300 K4CZ01000027
ZA2301 K4CZ01000027
15V
31
32
33
34
35

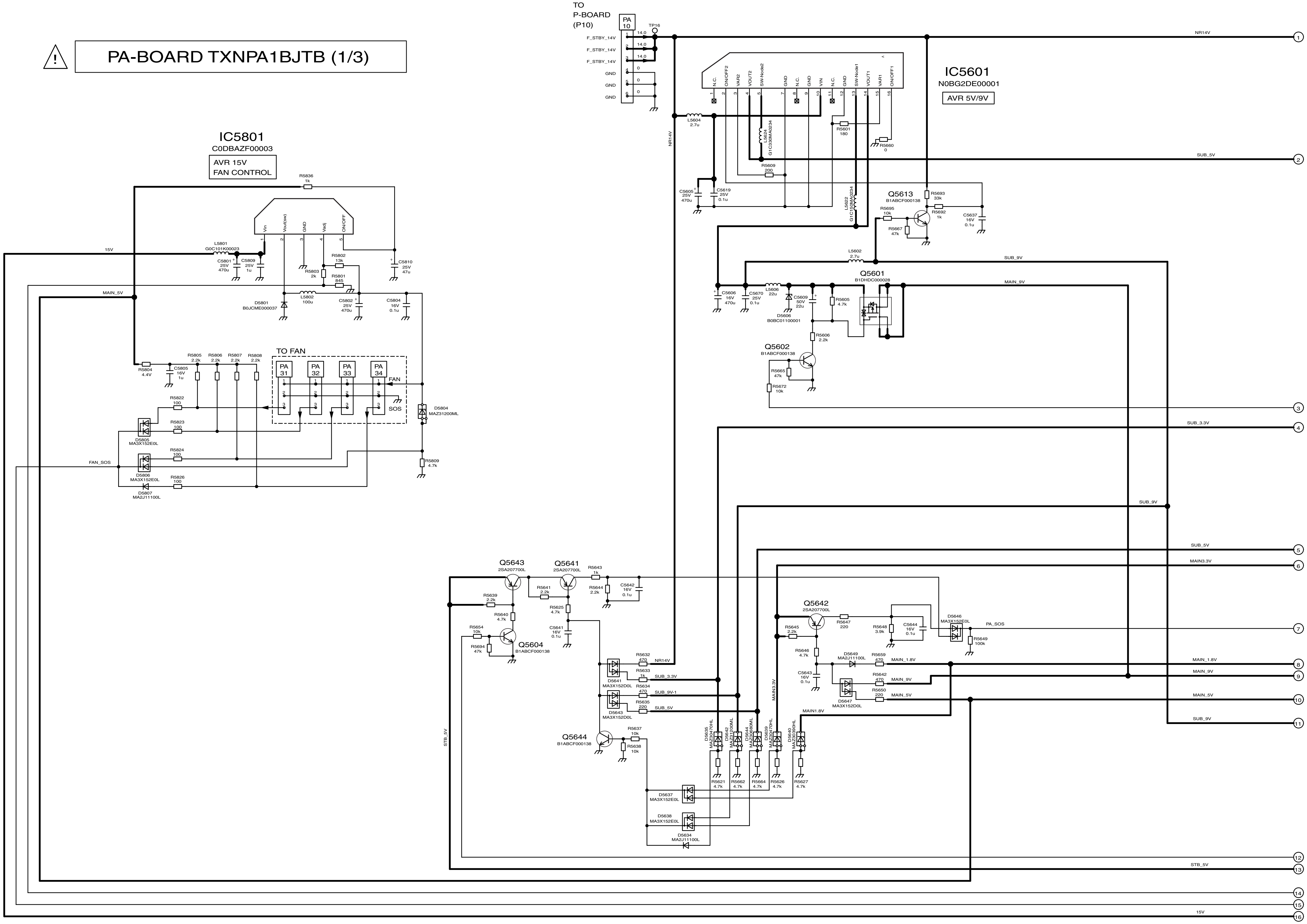
PA-BOARD TXNPA1BJTB (3/3)


PA-BOARD TXNPA1BJTB (2/3)
IC5602
EHMDD9851
AVR 1.8V/3.3V
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
VIN
SW-Node1
VOUT1
VAR1
ON/OFF1
L5607 22u
L5621 G1C330MA0234
L5623 G1C150MA0234
R5603 15.4k
R5607 4.53k
C5673 16V 0.1u
C5626 16V 0.1u
C5611 50V 330u
C5616 25V 0.1u
D5612 B0BC3R700006
L5615 15u
C5622 16V 470u
C5623 25V 0.1u
C5617 16V 470u
C5618 25V 0.1u
L5612 2.7u
D5610 B0BC4R700007
C5633 25V 220u
MAIN_3.3V
NR14V
R5652 0
R5619 33k
R5620 1k
R5676 10k
R5669 47k
Q5610 B1ABCF000138
L5651 22u
L5609 22u
SUB_5V
MAIN_5V
C5612 16V 470u
C5613 25V 0.1u
D5607 B0BC6R600005
C5672 50V 22u
R5615 10k
Q5603 B1DHDC000028
Q5605 B1ABCF000138
R5653 10k
R5668 47k
R5617 1k
IC5604
C0DBZGC00067
AVR 3.3V
VIN
GND
STBY
VOUT
NC
C5645 16V 47u
C5646 50V 0.01u
C5647 16V 47u
C5648 50V 0.01u
SUB3.3V
TPS33
TPS33V
SUB_3.3V
SUB5V
MAIN_1.8V
MAIN_1.8V (1.2A)
MAIN1.8V TPM18 TPM18V
MAIN_3.3V(1.55A)
MAIN3.3V TPM33 TPM33V
SUB_5V(1.0A)
SUB5VA TPS5 TPS5V
MAIN3.3V
MAIN_5V(0.37A)
MAIN5V TPM5 TPM5V
MAIN_9V
MAIN_9V(0.1A)
MAIN9V TPM9 TPM9V
SUB_9V
SUB_9V(1.7A)
SUB9V TPS9 TPS9V
STB_5V
15V
JS2300 0
JS2301 0
JS2302 0
JS2303 0
JS2319 0
JS2331 0
SUFFIX
AC JS5601 0
SR
SL
TPSSOS
SOUND_SOS
TP5616 SOS
TP5617 TV_SUB_ON
TP5615 TV_MAIN_ON
PA_SOS
TUNER_SUB_ON
Tuner_Main_ON
ODU_ON/OFF
SDA1(Main3.3V)
SCL1(Main3.3V)
TP17V ODU_17V
ODU +B 17.5V / 0.27A
MAIN1.8V
MAIN3.3V(1.55A/1.847A)
TPFSOS
FAN_SOS
FAN_CONT
MAIN5V(0.37A/0.46A)
SUB5V(0.63A)
MAIN9V(0.1A/NC)
SUB9V(1.3A/0.766A)
PA 20
TO DG-BOARD (DG20)
TO H-BOARD (H40)
PA 40
TPSTB5V
SUB9V
MAIN9V
SUB5VA
SUB3.3V
MAIN3.3V
AMUTE
TPMUTE
HP_MUTE
HP_R
GND
HP_L
8
9
10
11
12
13
14
15

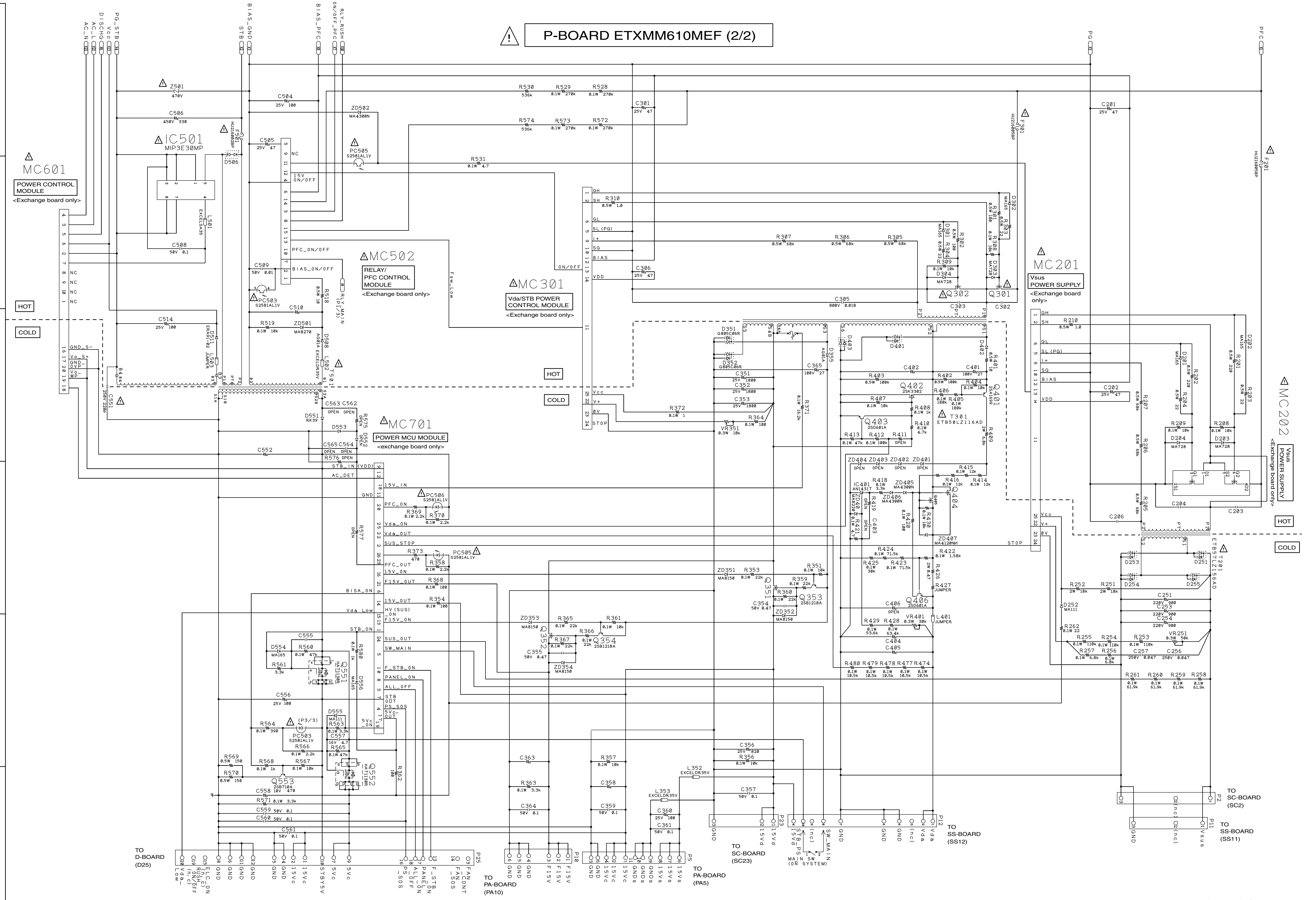
TH-50PV60E, TH-50PX60B
PA-Board (2 of 3) Schematic Diagram

TH-50PV60E, TH-50PX60B
PA-Board (2 of 3) Schematic Diagram

PA-BOARD TXNPA1BJTB (1/3)

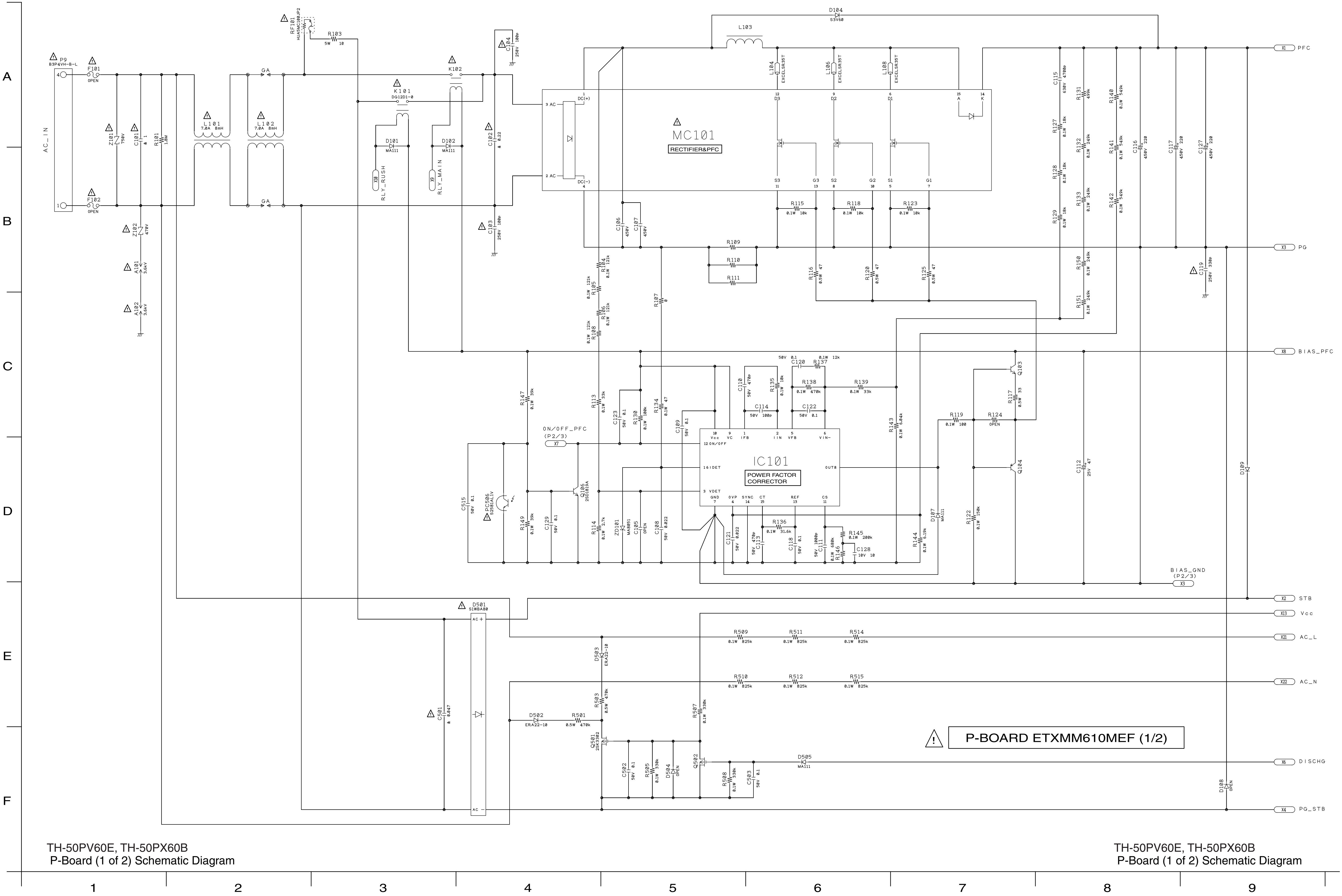

TO P-BOARD (P10)
PA10
TP16
F_STBY_14V
GND
NR14V
IC5601
N0BG2DE00001
AVR 5V/9V
N.C.
ON/OFF2
VAR2
VOUT2
SW-Node2
VIN
SW-Node1
VOUT1
VAR1
ON/OFF1
L5604 2.7u
R5601 180
R5660 0
L5624 G1C330MA0234
R5609 200
C5605 25V 470u
C5619 25V 0.1u
L5622 G1C150MA0234
Q5613 B1ABCF000138
R5693 33k
R5695 10k
R5692 1k
R5667 47k
C5637 16V 0.1u
SUB_5V
L5602 2.7u
SUB_9V
MAIN_9V
Q5601 B1DHDC000028
C5606 16V 470u
C5670 25V 0.1u
L5606 22u
C5609 50V 22u
D5606 B0BC01100001
R5605 4.7k
R5606 2.2k
Q5602 B1ABCF000138
R5665 47k
R5672 10k
SUB_3.3V
IC5801
C0DBAZF00003
AVR 15V FAN CONTROL
R5836 1k
Vin
Vout(sw)
GND
Vadj
ON/OFF
15V
L5801 G0C101K00023
C5801 25V 470u
C5809 25V 1u
R5802 13k
R5803 2k
R5801 845
C5810 25V 47u
MAIN_5V
D5801 B0JCME000037
L5802 100u
C5802 25V 470u
C5804 16V 0.1u
TO FAN
PA31
PA32
PA33
PA34
FAN
SOS
R5805 2.2k
R5806 2.2k
R5807 2.2k
R5808 2.2k
R5804 4.4V
C5805 16V 1u
R5822 100
R5823 100
R5824 100
R5826 100
D5805 MA3X152E0L
D5806 MA3X152E0L
D5807 MA2J11100L
FAN_SOS
D5804 MAZ31200ML
R5809 4.7k
Q5643 2SA207700L
Q5641 2SA207700L
R5643 1k
C5642 16V 0.1u
R5644 2.2k
R5641 2.2k
R5639 2.2k
R5625 4.7k
R5640 4.7k
C5641 16V 0.1u
R5654 10k
R5694 47k
Q5604 B1ABCF000138
STB_5V
D5641 MA3X152D0L
D5643 MA3X152D0L
R5632 470
R5633 1k
R5634 470
R5635 220
SUB_9V-1
Q5644 B1ABCF000138
R5637 10k
R5638 10k
Q5642 2SA207700L
R5647 220
R5648 3.9k
C5644 16V 0.1u
D5646 MA3X152E0L
PA_SOS
R5649 100k
R5645 2.2k
R5646 4.7k
C5643 16V 0.1u
D5649 MA2J11100L
R5659 470
R5642 470
R5650 220
D5647 MA3X152D0L
MAIN_1.8V
MAIN_5V
MAIN3.3V
MAIN1.8V
D5635
D5642
D5644
D5639
D5640
R5621 4.7k
R5662 4.7k
R5664 4.7k
R5626 4.7k
R5627 4.7k
D5637 MA3X152E0L
D5638 MA3X152E0L
D5634 MA2J11100L
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E

1
2
3
4
5
6
7
8


P-BOARD ETXMM610MEF (2/2)
A
B
C
D
E
F
AC_N
AC_L
DISCHG
Vcc
PG_STB
BIAS_GND
STB
BIAS_PFC
ON/OFF_PFC
RLY_RUSH
PG
PFC
MC601
POWER CONTROL MODULE
<Exchange board only>
IC501
MIP3E30MP
MC502
RELAY/ PFC CONTROL MODULE
<Exchange board only>
MC301
Vda/STB POWER CONTROL MODULE
<Exchange board only>
MC201
Vsus POWER SUPPLY
<Exchange board only>
MC202
Vsus POWER SUPPLY
<Exchange board only>
MC701
POWER MCU MODULE
<exchange board only>
HOT
COLD
T301
ETB50LZ116AD
T201
ETB57LZ156AD
T501
Q301
Q302
Q401
Q402
Q403
Q404
Q406
Q351
Q352
Q353
Q354
Q551
Q552
Q553
IC401
AN1431T
PC503
PC505
PC506
S2581AL1V
RLY_MAIN (P1/3)
15V_IN
PFC_ON
Vda_ON
Vda_OUT
SUS_STOP
PFC_OUT
15V_ON
F15V_OUT
15V_OUT
HV (SUS)_ON
F15V_ON
SUS_OUT
SW_MAIN
F_STB_ON
PANEL_ON
ALL_OFF
STB OUT
PS_SOS
5Vc-OUT
5Vc_ON
STB_IN (VDD)
AC_DET
GND
BISA_ON
Vda_Low
STB_ON
TO D-BOARD (D25)
TO PA-BOARD (PA10)
TO PA-BOARD (PA5)
TO SC-BOARD (SC23)
TO SS-BOARD (SS12)
TO SC-BOARD (SC2)
TO SS-BOARD (SS11)
P25
P10
P5
P23
P12
P2
P11
Vda_Low
Vda_ON/OFF
ELC_ON
STBY5V
5Vc
15Vc
PS_SOS
ALL_OFF
PANEL_ON
F_STB_ON
FAN_SOS
FAN_ON
F15V
15Vs
15Vd
STB_PS
SW_MAIN
MAIN SW (ON SYSTEM)
Vda
Vsus
GND
(n.c)
1
2
3
4
5
6
7
8
9

TH-50PV60E, TH-50PX60B (2 of 2) Schematic Diagram

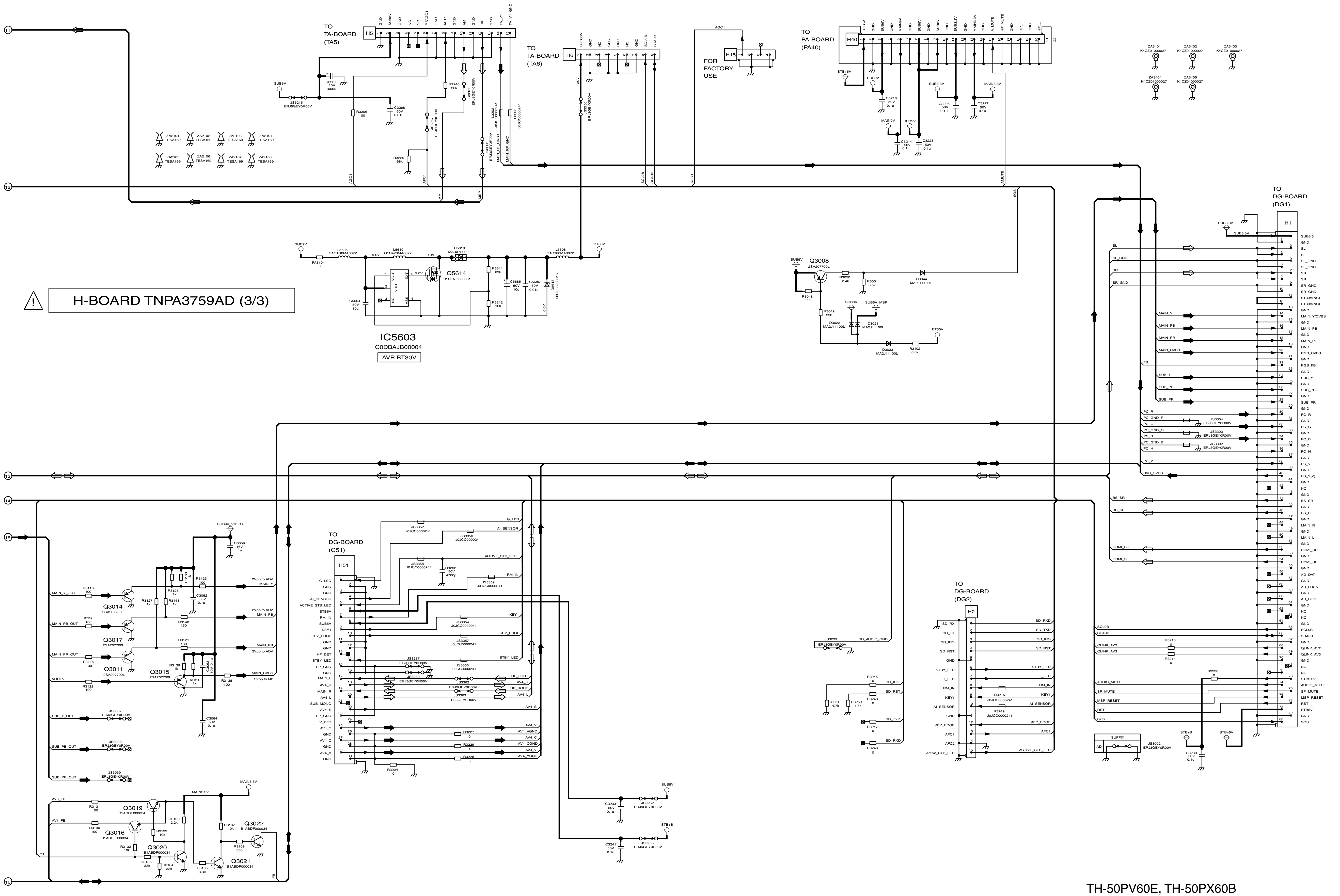
TH-50PV60E, TH-50PX60B P-Board (2 of 2) Schematic Diagram


P-BOARD ETXMM610MEF (1/2)
AC_IN
P9 B3P4VH-B-L
F101 OPEN
F102 OPEN
Z101 750V
C101 1
R101 1.8M
Z102 470V
A101 3.6kV
A102 3.6kV
L101 7.0A 8mH
L102 7.0A 8mH
GA
RF101 HUA5MC100JP2
R103 5W 10
K101 DG12D1-0
K102
D101 MA111
D102 MA111
RLY_RUSH
RLY_MAIN
C102 0.22
C103 250V 100p
C104 250V 100p
MC101
RECTIFIER&PFC
3 AC
2 AC
DC(+)
DC(-)
L103
D104 S3V60
L104 EXCELSR35T
L106 EXCELSR35T
L108 EXCELSR35T
D3
D2
D1
S3
G3
S2
G2
S1
G1
R115 0.1W 10k
R118 0.1W 10k
R123 0.1W 10k
R116 0.5W 47
R120 0.5W 47
R125 0.5W 47
C106 450V
C107 450V
R109
R110
R111
R104 0.1W 121k
R105 0.1W 121k
R106 0.1W 121k
R108 0.1W 121k
R107 0
C115 630V 4700p
R127 0.1W 18k
R128 0.1W 18k
R129 0.1W 18k
R131 0.1W 499k
R132 0.1W 249k
R133 0.1W 249k
R150 0.1W 249k
R151 0.1W 249k
R140 0.1W 549k
R141 0.1W 549k
R142 0.1W 549k
C116 450V 220
C117 450V 220
C127 450V 220
C119 250V 330p
PFC
PG
BIAS_PFC
IC101
POWER FACTOR CORRECTOR
10 Vcc
9 VC
1 IFB
2 IIN
5 VFB
6 VIN-
12 ON/OFF
16 IDET
3 VDET
OUT 8
GND 7
OVP 4
SYNC 14
CT 15
REF 13
CS 11
ON/OFF_PFC (P2/3)
X7
C120 50V 0.1
R137 0.1W 12k
C110 50V 470p
R135 0.1W 10k
R138 0.1W 470k
R139 0.1W 33k
C114 50V 100p
C122 50V 0.1
R113 0.1W 33k
C123 50V 0.1
R130 0.1W 100k
R134 0.1W 47
C109 50V 0.1
R147 0.1W 39k
R143 0.1W 6.04k
R119 0.1W 100
R124 OPEN
R117 0.5W 33
Q103
Q104
C112 25V 47
D109
C515 50V 0.1
PC506 S2581AL1V
Q106 2SD1819A
R149 0.1W 39k
C129 50V 0.1
R114 0.1W 2.7k
ZD101 MA8051
C105 OPEN
C108 50V 0.022
C121 50V 0.022
C113 50V 470p
R136 0.1W 31.6k
C118 50V 0.1
C111 50V 1000p
R146 0.1W 680k
R145 0.1W 200k
C128 10V 10
R144 0.1W 6.19k
D107 MA111
R122 0.1W 150k
BIAS_GND (P2/3)
X3
STB
Vcc
AC_L
AC_N
DISCHG
PG_STB
D501 S1WBA80
AC +
AC -
C501 0.047
R509 0.1W 825k
R511 0.1W 825k
R514 0.1W 825k
R510 0.1W 825k
R512 0.1W 825k
R515 0.1W 825k
D503 ERA22-10
D502 ERA22-10
R501 0.5W 470k
R503 0.5W 470k
R507 0.1W 330k
Q501 2SK3302
Q502
C502 50V 0.1
R505 0.1W 330k
D504 OPEN
R508 0.1W 330k
C503 50V 0.1
D505 MA111
D108 OPEN
X1
X2
X4
X6
X8
X13
X21
X22
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-50PV60E, TH-50PX60B
P-Board (1 of 2) Schematic Diagram

TH-50PV60E, TH-50PX60B
P-Board (1 of 2) Schematic Diagram

H-BOARD TNPA3759AD (3/3)

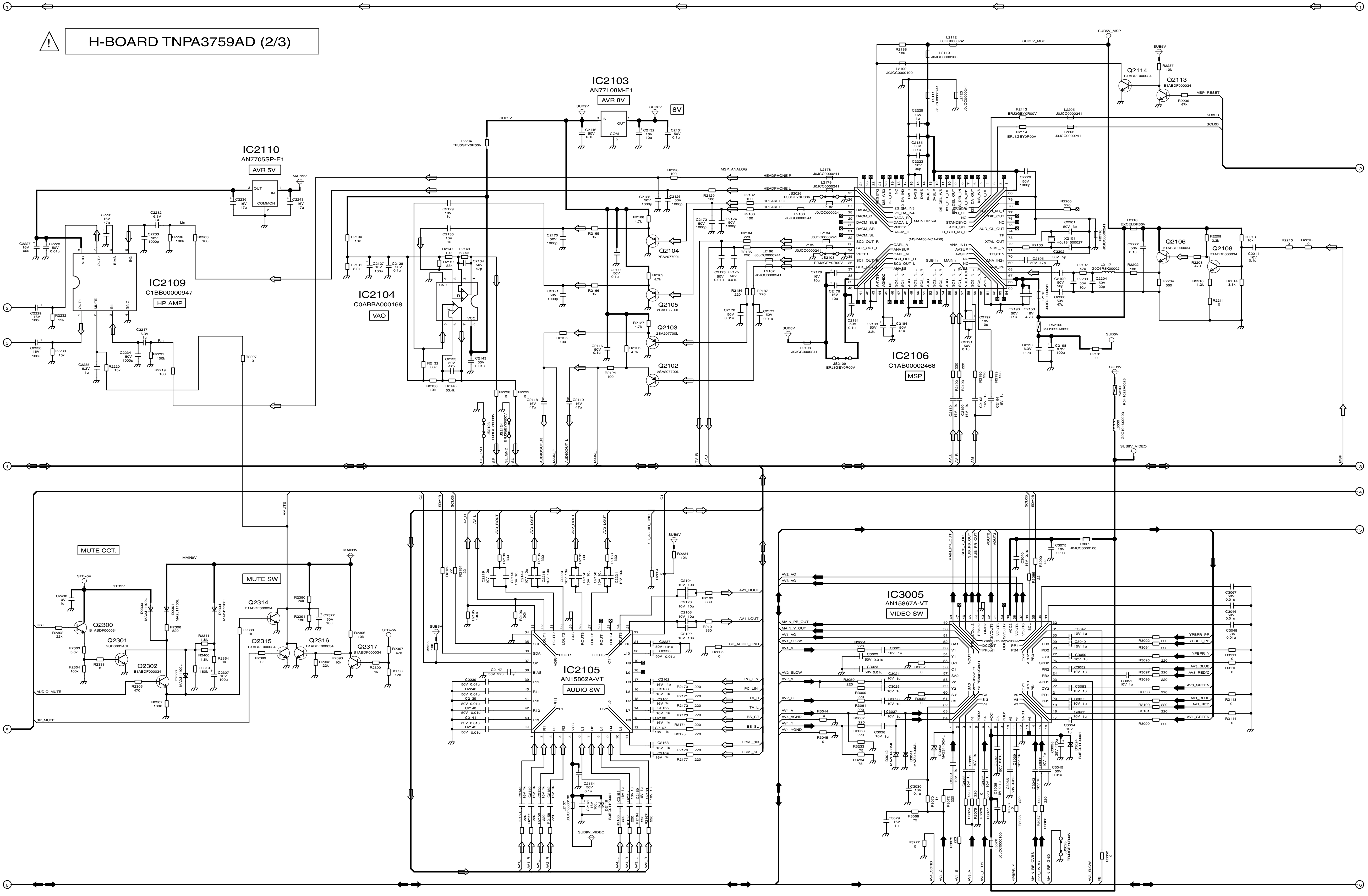


⚠
11
12
13
14
15
16
TO TA-BOARD (TA5)
H5
GND
SUB5V
GND
NC
NC
RFAGC1
GND
AFT1
GND
AM
GND
SIF
GND
TV_V1
TV_V1_GND
SUB5V
JS3215 ERJ6GEY0R00V
C3207 10V 1000u
C3268 50V 0.01u
R3206 100
R2246 36k
JS3201 ERJ3GEY0R00V
JS3257 ERJ3GEY0R00V
R3239 68k
JS3206 ERJ3GEY0R00V
L3202 J0JCC0000241
L3205 J0JCC0000241
MAIN_RF_CVBS
MAIN_RF_GND
AGC1
AFC1
AM
MSP
ZA2101 TESA169
ZA2102 TESA169
ZA2103 TESA169
ZA2104 TESA169
ZA2105 TESA169
ZA2106 TESA169
ZA2107 TESA169
ZA2108 TESA169
TO TA-BOARD (TA6)
H6
SUB30V
GND
NC
GND
GND
NC
GND
SCL0B
SDA0B
30V
JS3256 ERJ3GEY0R00V
SCL0B
SDA0B
AGC1
FOR FACTORY USE
H15
TO PA-BOARD (PA40)
H40
STB5V
GND
SUB9V
GND
MAIN9V
GND
SUB5V
GND
SUB5V
GND
SUB3.3V
GND
MAIN3.3V
GND
A_MUTE
HP_MUTE
GND
HP_R
GND
HP_L
STB+5V
SUB9V
C3216 50V 0.1u
SUB3.3V
C3226 50V 0.1u
MAIN3.3V
C3227 50V 0.1u
MAIN9V
C3214 50V 0.1u
SUB5V
C3228 50V 0.1u
AMUTE
SOS
ZA3401 K4CZ01000027
ZA3402 K4CZ01000027
ZA3403 K4CZ01000027
ZA3404 K4CZ01000027
ZA3405 K4CZ01000027
SUB9V
PA3104 0
L5605 G1C1R0MA0072
9.0V
L5610 G1C470MA0077
9.0V
D5610 MA3X78900L
Q5614 B1CFNG000001
R5611 82k
R5612 16k
C5685 50V 10u
C5686 50V 0.01u
D5618 B0BC03900015
0.0V
L5608 G1C100MA0072
BT30V
C5604 50V 10u
VOUT
VDD
NC
EXT
VSS
IC5603
C0DBAJB00004
AVR BT30V
SUB5V
Q3008 2SA207700L
R3050 2.4k
R3051 6.8k
D3044 MA2J11100L
R3048 22k
R3049 220
SUB8V
SUB5V_MSP
D3022 MA2J11100L
D3021 MA2J11100L
D3023 MA2J11100L
R3102 6.8k
BT30V
TO DG-BOARD (DG1)
H1
SUB3.3V
SL
SL_GND
SR
SR_GND
MAIN_Y
MAIN_PB
MAIN_PR
MAIN_CVBS
FB
SUB_Y
SUB_PB
SUB_PR
PC_R
PC_GND_R
PC_G
PC_GND_G
PC_B
PC_GND_B
PC_H
PC_V
JS3304 ERJ3GEY0R00V
JS3303 ERJ3GEY0R00V
JS3302 ERJ3GEY0R00V
DVB_CVBS
BS_SR
BS_SL
HDMI_SR
HDMI_SL
1 SUB3.3
2 GND
3 SL
4 SL
5 SL_GND
6 SL_GND
7 SR
8 SR
9 SR_GND
10 SR_GND
11 BT30V(NC)
12 BT30V(NC)
13 GND
14 MAIN_Y/CVBS
15 GND
16 MAIN_PB
17 GND
18 MAIN_PR
19 GND
20 RGB_CVBS
21 GND
22 RGB_FB
23 GND
24 SUB_Y
25 GND
26 SUB_PB
27 GND
28 SUB_PR
29 GND
30 PC_R
31 GND
32 PC_G
33 GND
34 PC_B
35 GND
36 PC_H
37 GND
38 PC_V
39 GND
40 BS_Y(V)
41 GND
42 NC
43 GND
44 BS_SR
45 GND
46 BS_SL
47 GND
48 MAIN_R
49 GND
50 MAIN_L
51 GND
52 HDMI_SR
53 GND
54 HDMI_SL
55 GND
56 AD_DAT
57 GND
58 AD_LRCK
59 GND
60 AD_BICK
61 GND
62 NC
63 NC
64 GND
65 SCL0B
66 SDA0B
67 GND
68 QLINK_AV2
69 QLINK_AV3
70 GND
71 NC
72 NC
73 STB3.3V
74 AUDIO_MUTE
75 SP_MUTE
76 MSP_RESET
77 RST
78 STB5V
79 GND
80 SOS
SCL0B
SDA0B
QLINK_AV2
QLINK_AV3
R3213 0
R3214 0
R3238 0
AUDIO_MUTE
SP_MUTE
MSP_RESET
RST
SOS
SUFFIX
AD
JS3002 ERJ3GEY0R00V
STB+B
STB+5V
C3230 50V 0.1u
SUB9V_VIDEO
C3059 16V 1u
MAIN_Y_OUT
R3118 100
Q3014 2SA207700L
R3127 1k
R3141 1k
R3125 1k
R3160 1k
R3123 100
C3062 50V 0.1u
2Vpp to ADV MAIN_Y
MAIN_PB_OUT
R3126 100
Q3017 2SA207700L
R3140 130
2Vpp to ADV MAIN_PB
MAIN_PR_OUT
R3115 100
Q3011 2SA207700L
R3121 130
MAIN_PR 2Vpp to ADV
VOUT5
R3122 100
Q3015 2SA207700L
R3139 1k
R3161 1k
C3063 50V 0.1u
R3138 100
MAIN_CVBS 2Vpp to M2
C3064 50V 0.1u
SUB_Y_OUT
JS3037 ERJ3GEY0R00V
SUB_PB_OUT
JS3038 ERJ3GEY0R00V
SUB_PR_OUT
JS3039 ERJ3GEY0R00V
MAIN3.3V
AV3_FB
R3131 100
Q3019 B1ABDF000034
AV1_FB
R3130 100
Q3016 B1ABDF000034
R3133 10k
R3103 2.2k
R3132 10k
Q3020 B1ABDF000034
O1
R3136 33k
R3134 33k
R3107 10k
Q3022 B1ABDF000034
R3109 330
R3105 3.3k
Q3021 B1ABDF000034
FB
TO DG-BOARD (G51)
H51
1 G_LED
2 GND
3 GND
4 AI_SENSOR
5 ACTIVE_STB_LED
6 STB5V
7 RM_IN
8 SUB5V
9 KEY1
10 KEY_EDGE
11 GND
12 GND
13 HP_DET
14 STBY_LED
15 HP_GND
16 GND
17 MAIN_L
18 AV4_R
19 MAIN_R
20 AV4_L
21 SUB_MONO
22 AV4_S
23 HP_GND
24 V_DET
25 AV4_Y
26 GND
27 AV4_C
28 GND
29 AV4_V
30 GND
JS3352 J0JCC0000241
G_LED
JS3356 J0JCC0000241
AI_SENSOR
JS3358 J0JCC0000241
C3262 50V 4700p
ACTIVE_STB_LED
JS3359 J0JCC0000241
RM_IN
JS3354 J0JCC0000241
KEY1
JS3357 J0JCC0000241
KEY_EDGE
JS3237 ERJ3GEY0R00V
JS3355 J0JCC0000241
STBY_LED
JS3230 ERJ3GEY0R00V
JS3362 ERJ3GEY0R00V
JS3363 ERJ3GEY0R00V
HP_LOUT
AV4_R
HP_ROUT
AV4_L
AV4_S
AV4_Y
R3227 0
AV4_VGND
AV4_C
R3229 0
AV4_CGND
AV4_V
R3228 0
AV4_YGND
R3224 0
SUB5V
C3233 50V 0.1u
JS3252 ERJ6GEY0R00V
STB+B
C3241 50V 0.1u
JS3255 ERJ6GEY0R00V
JS3239 ERJ3GEY0R00V
SD_AUDIO_GND
R3245 0
SD_IRQ
R3246 0
SD_RST
R3251 4.7k
R3250 4.7k
R3247 0
SD_TXD
R3248 0
SD_RXD
TO DG-BOARD (DG2)
H2
1 SD_RX
2 SD_TX
3 SD_IRQ
4 SD_RST
5 GND
6 STBY_LED
7 G_LED
8 RM_IN
9 KEY1
10 AI_SENSOR
11 GND
12 KEY_EDGE
13 AFC1
14 AFC2
15 Active_STB_LED
SD_RXD
SD_TXD
SD_IRQ
SD_RST
STBY_LED
G_LED
RM_IN
R3215 J0JCC0000241
KEY1
AI_SENSOR
R3249 J0JCC0000241
KEY_EDGE
AFC1
ACTIVE_STB_LED

TH-50PV60E, TH-50PX60B H-Board (3 of 3) Schematic Diagram

TH-50PV60E, TH-50PX60B
H-Board (3 of 3) Schematic Diagram

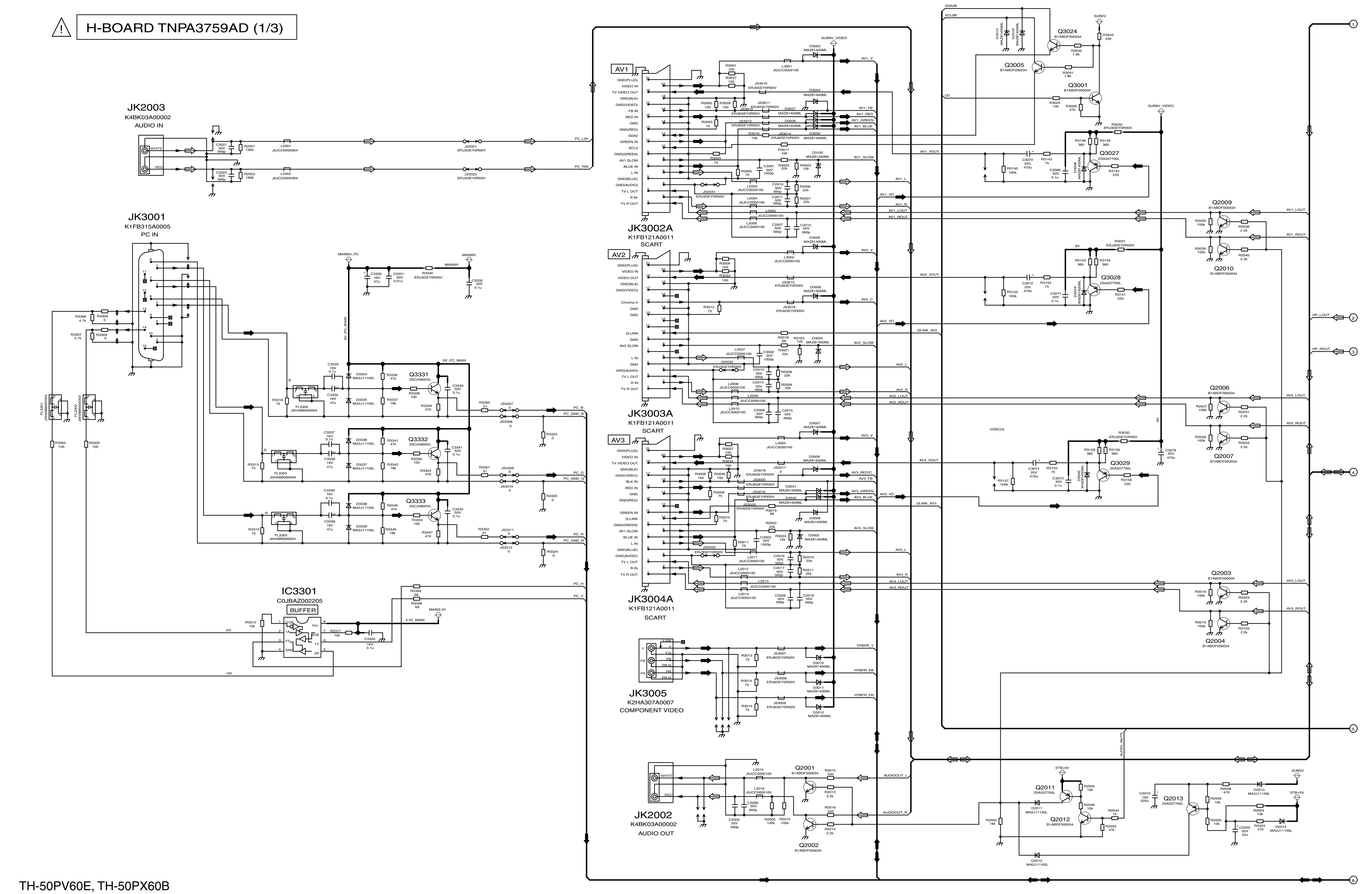
H-BOARD TNPA3759AD (2/3)


IC2110
AN7705SP-E1
AVR 5V
IC2103
AN77L08M-E1
AVR 8V
8V
IC2109
C1BB00000947
HP AMP
IC2104
C0ABBA000168
VAO
IC2106
C1AB00002468
MSP
(MSP4450K-QA-D6)
IC2105
AN15862A-VT
AUDIO SW
IC3005
AN15867A-VT
VIDEO SW
MUTE CCT.
MUTE SW
Q2104
Q2105
Q2103
Q2102
Q2114
Q2113
Q2106
Q2108
Q2300
Q2301
Q2302
Q2314
Q2315
Q2316
Q2317
SUB9V
SUB8V
SUB5V
SUB5V_MSP
MAIN9V
STB+5V
MSP_RESET
SDA0B
SCL0B
HEADPHONE R
HEADPHONE L
SPEAKER R
SPEAKER L
MSP_ANALOG
MAIN HP out
AUDIO_MUTE
SP_MUTE
RST
AMUTE
AV1_ROUT
AV1_LOUT
SD_AUDIO_GND
PC_RIN
PC_LIN
TV_R
TV_L
BS_SR
BS_SL
HDMI_SR
HDMI_SL
AV2_VO
AV3_VO
MAIN_PB_OUT
MAIN_Y_OUT
AV1_VO
AV1_SLOW
AV1_V
AV2_SLOW
AV2_V
AV2_C
AV4_V
AV4_VGND
AV4_Y
AV4_YGND
YPBPR_PR
YPBPR_PB
YPBPR_Y
AV3_BLUE
AV3_RED/C
AV3_GREEN
AV1_BLUE
AV1_RED
AV1_GREEN
SUB9V_VIDEO

TH-50PV60E, TH-50PX60B H-Board (2 of 3) Schematic Diagram

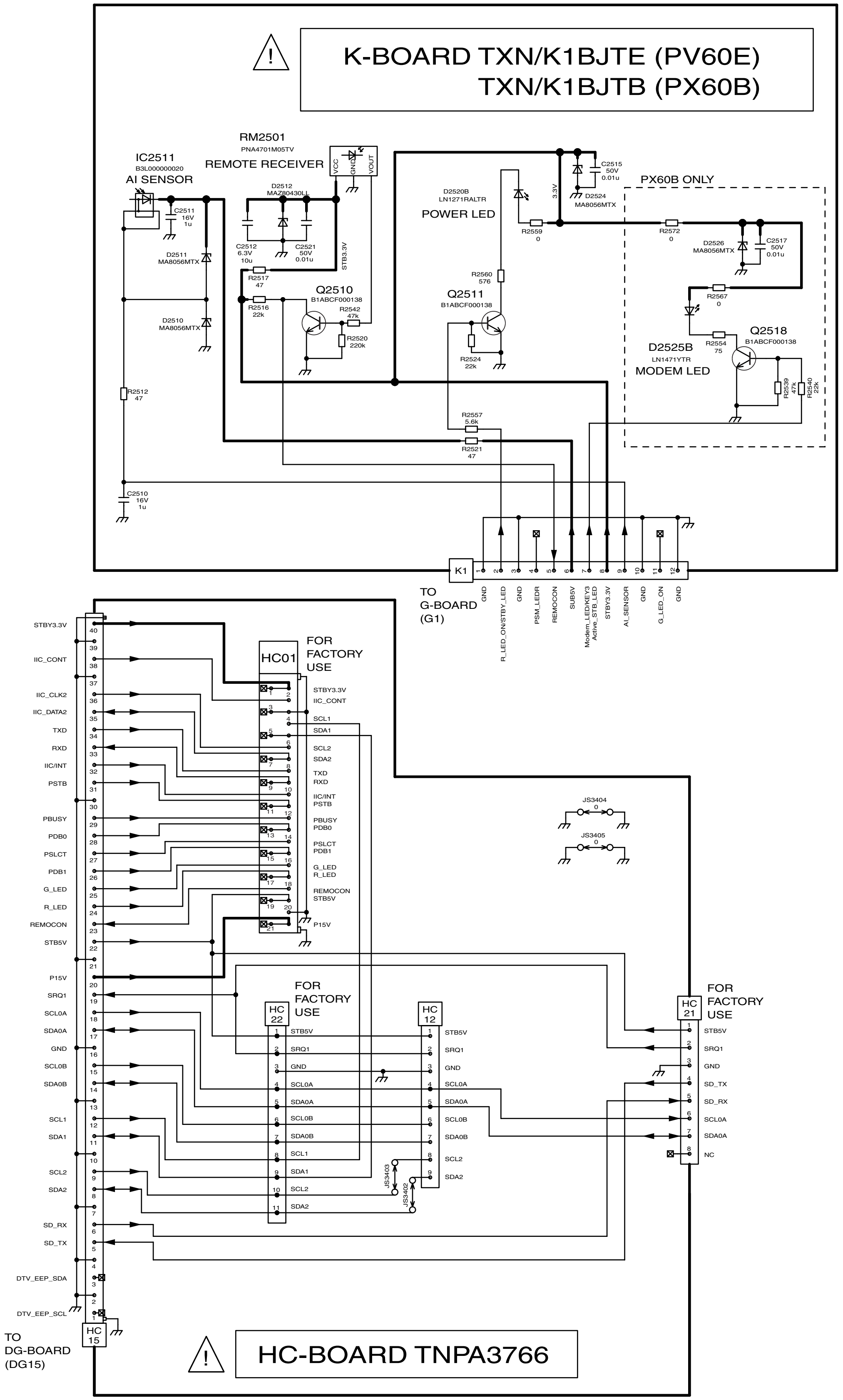
TH-50PV60E, TH-50PX60B H-Board (2 of 3) Schematic Diagram

H-BOARD TNPA3759AD (1/3)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
JK2003
K4BK03A00002
AUDIO IN
WHITE
RED
PC_LIN
PC_RIN
JK3001
K1FB315A0005
PC IN
MAIN9V_PC
MAIN9V
9V_PC_MAIN
Q3331
2SC24800VL
Q3332
2SC24800VL
Q3333
2SC24800VL
FL3305
J0HABB000004
FL3304
J0HABB000004
FL3303
J0HABB000004
FL3301
J0HABB000003
FL3302
J0HABB000003
PC_B
PC_GND_B
PC_G
PC_GND_G
PC_R
PC_GND_R
PC_H
PC_V
VD
HD
IC3301
C0JBAZ002205
BUFFER
MAIN3.3V
3.3V_MAIN
AV1
JK3002A
K1FB121A0011
SCART
AV2
JK3003A
K1FB121A0011
SCART
AV3
JK3004A
K1FB121A0011
SCART
GND(PLUG)
VIDEO IN
TV VIDEO OUT
GND(BLK)
GND(VIDEO)
FB IN
RED IN
GND
GND(RED)
SDA2
GREEN IN
SCL2
GND(GREEN)
AV1 SLOW
BLUE IN
L IN
GND(BLUE)
GND(AUDIO)
TV L OUT
R IN
TV R OUT
VIDEO OUT
Chroma in
Q-LINK
AV2 SLOW
BLK IN
SUB9V_VIDEO
AV1_V
AV1_FB
AV1_RED
AV1_GREEN
AV1_BLUE
AV1_SLOW
AV1_L
AV1_VO
AV1_R
AV1_LOUT
AV1_ROUT
AV1_VOUT
AV2_V
AV2_VOUT
AV2_C
AV2_VO
QLINK_AV2
AV2_SLOW
AV2_L
AV2_R
AV2_LOUT
AV2_ROUT
AV3_V
AV3_VOUT
AV3_RED/C
AV3_FB
AV3_GREEN
AV3_BLUE
AV3_VO
QLINK_AV3
AV3_SLOW
AV3_L
AV3_R
AV3_LOUT
AV3_ROUT
JK3005
K2HA307A0007
COMPONENT VIDEO
YPBPR_Y
YPBPR_PB
YPBPR_PR
JK2002
K4BK03A00002
AUDIO OUT
AUDIOOUT_L
AUDIOOUT_R
Q2001
B1ABDF000034
Q2002
B1ABDF000034
SDA0B
SCL0B
SUB5V
Q3024
B1ABDF000034
Q3005
B1ABDF000034
Q3001
B1ABDF000034
Q3027
2SA207700L
Q3028
2SA207700L
Q3029
2SA207700L
VIDEO/S
Q2009
B1ABDF000034
Q2010
B1ABDF000034
Q2006
B1ABDF000034
Q2007
B1ABDF000034
Q2003
B1ABDF000034
Q2004
B1ABDF000034
HP_LOUT
HP_ROUT
AUDIO_MUTE
STB+5V
Q2011
2SA207700L
Q2012
B1ABDF000034
Q2013
2SA207700L
①
②
③
④
⑤
⑥

TH-50PV60E, TH-50PX60B
H-Board (1 of 3) Schematic Diagram

TH-50PV60E, TH-50PX60B H-Board (1 of 3) Schematic Diagram


K-BOARD TXN/K1BJTE (PV60E)
TXN/K1BJTB (PX60B)
IC2511
B3L000000020
AI SENSOR
RM2501
PNA4701M05TV
REMOTE RECEIVER
POWER LED
D2520B
LN1271RALTR
Q2510
B1ABCF000138
Q2511
B1ABCF000138
PX60B ONLY
D2525B
LN1471YTR
MODEM LED
Q2518
B1ABCF000138
K1
TO
G-BOARD
(G1)
GND
R_LED_ON/STBY_LED
GND
PSM_LEDR
REMOCON
SUB5V
Modem_LED/KEY3
Active_STB_LED
STB3.3V
AI_SENSOR
GND
G_LED_ON
GND
HC-BOARD TNPA3766
HC01
FOR
FACTORY
USE
HC22
HC12
HC21
HC15
TO
DG-BOARD
(DG15)
STBY3.3V
IIC_CONT
IIC_CLK2
IIC_DATA2
TXD
RXD
IIC/INT
PSTB
PBUSY
PDB0
PSLCT
PDB1
G_LED
R_LED
REMOCON
STB5V
P15V
SRQ1
SCL0A
SDA0A
GND
SCL0B
SDA0B
SCL1
SDA1
SCL2
SDA2
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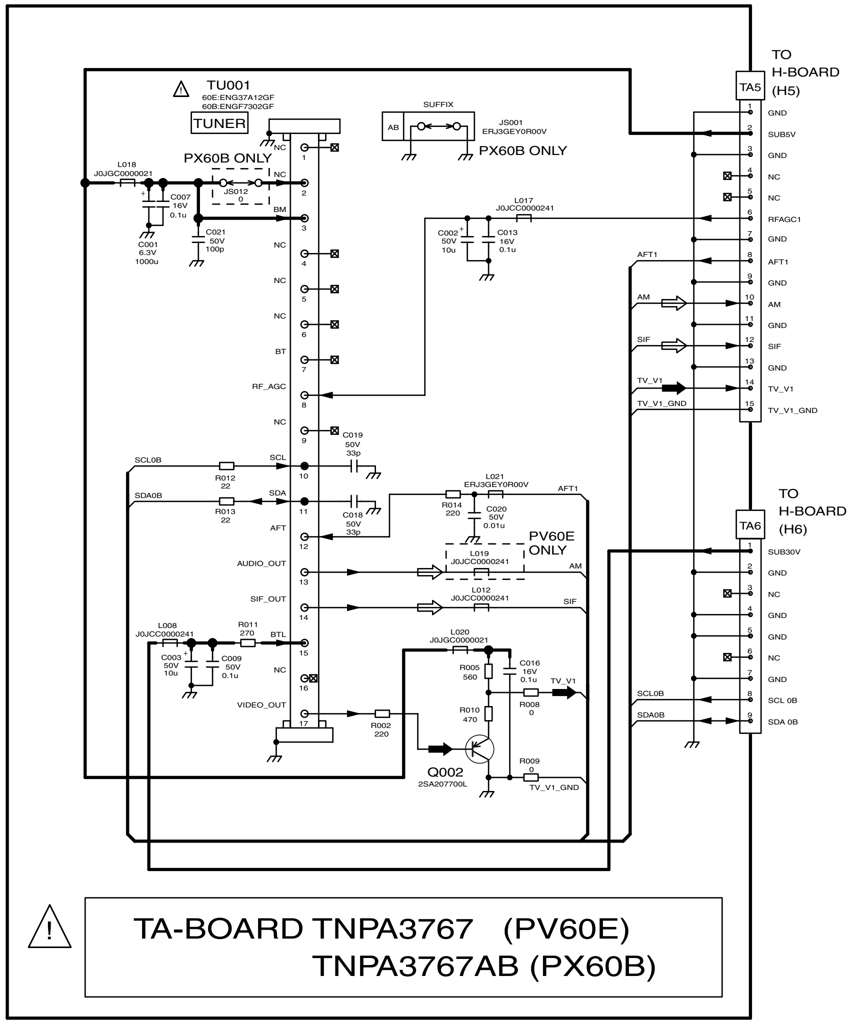
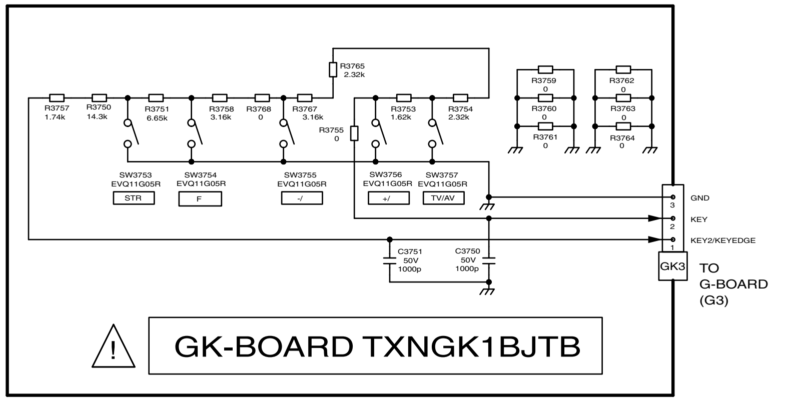
SD_TX
DTV_EEP_SDA
DTV_EEP_SCL
JS3404
JS3405
JS3403
JS3402
NC


TA-BOARD TNPA3767 (PV60E)
TNPA3767AB (PX60B)
TU001
60E:ENG37A12GF
60B:ENGF7302GF
TUNER
PX60B ONLY
JS001
ERJ3GEY0R00V
SUFFIX
PV60E
ONLY
Q002
2SA207700L
TA5
TO
H-BOARD
(H5)
TA6
TO
H-BOARD
(H6)
GND
SUB5V
NC
RFAGC1
AFT1
AM
SIF
TV_V1
TV_V1_GND
SUB30V
SCL 0B
SDA 0B
BM
BT
RF_AGC
SCL
SDA
AFT
AUDIO_OUT
SIF_OUT
BTL
VIDEO_OUT


GK-BOARD TXNGK1BJTB
SW3753
EVQ11G05R
STR
SW3754
EVQ11G05R
F
SW3755
EVQ11G05R
-/
SW3756
EVQ11G05R
+/
SW3757
EVQ11G05R
TV/AV
GK3
TO
G-BOARD
(G3)
GND
KEY
KEY2/KEYEDGE
C3751
50V
1000p
C3750
50V
1000p

TH-50PV60E, TH-50PX60B GK, K, HC and TA-Board Schematic Diagram

TH-50PV60E, TH-50PX60B
GK, K, HC and TA-Board Schematic Diagram

A B C D E

1 2 3 4 5 6 7 8

A

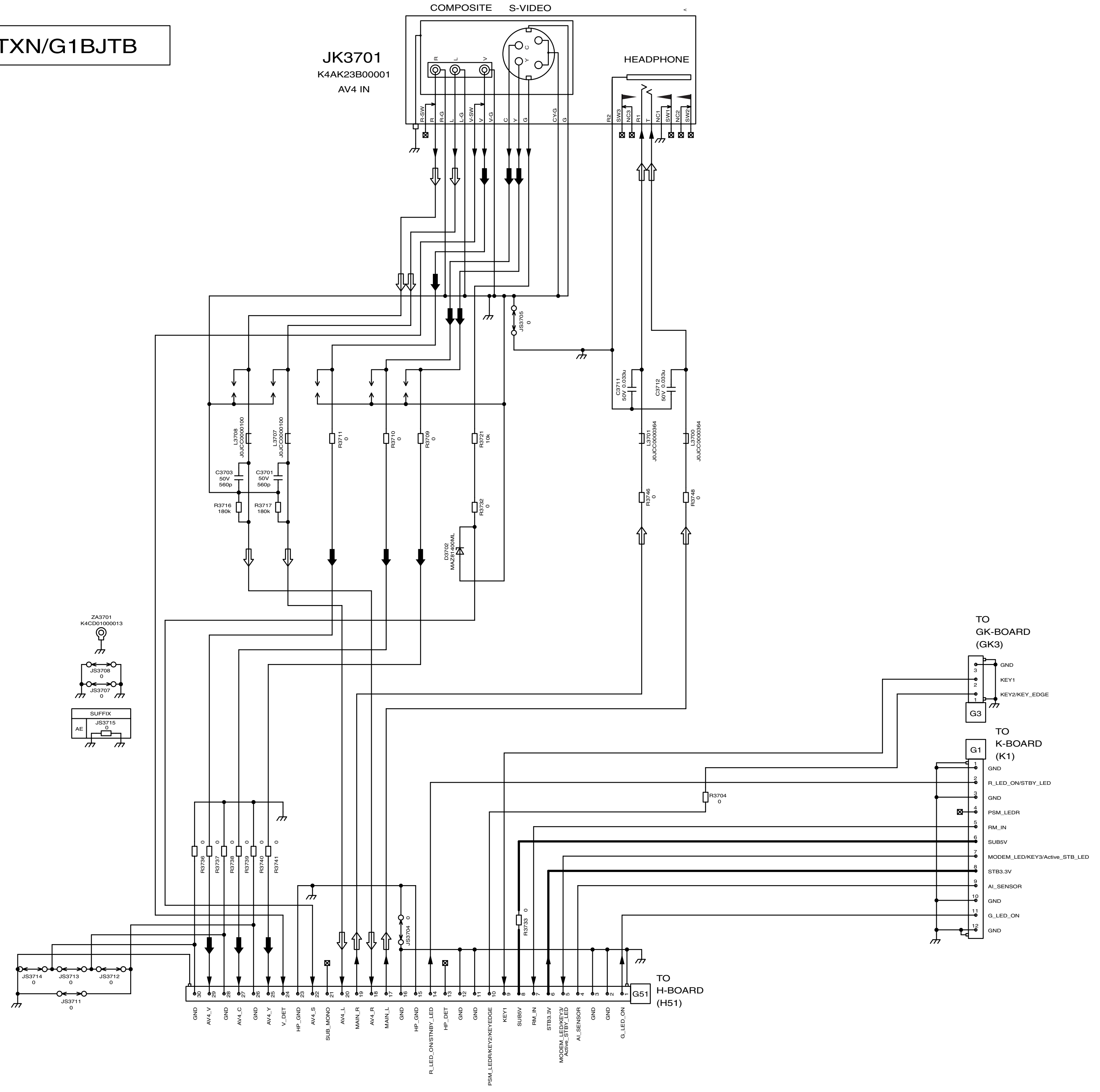
B

C

D

E

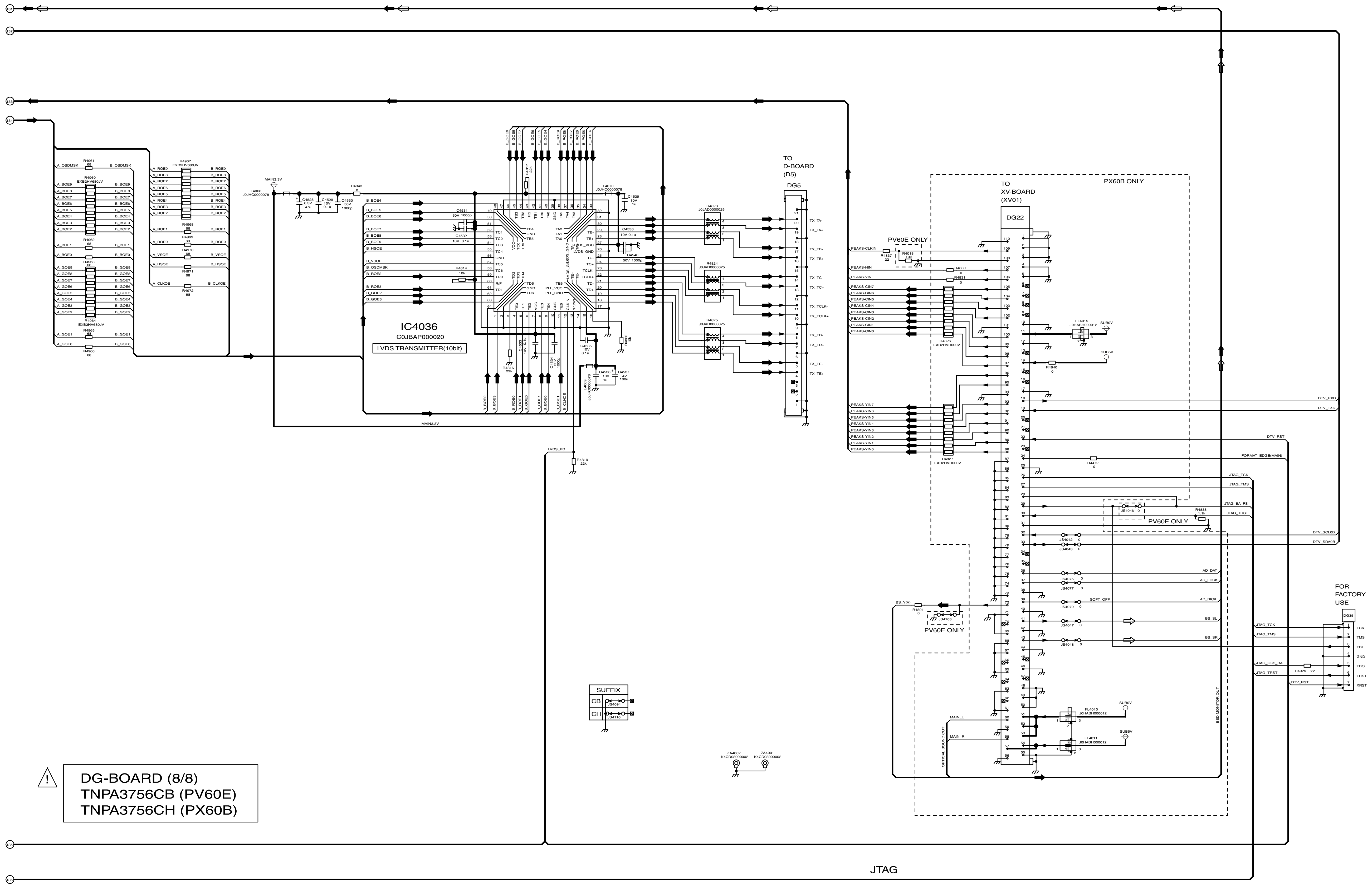
⚠ **G-BOARD TXN/G1BJTB**


JK3701
K4AK23B00001
AV4 IN
COMPOSITE
S-VIDEO
HEADPHONE
R
L
V
C
Y
R-SW
R
R-G
L
L-G
V-SW
V
V-G
C
Y
G
CY-G
G
R2
SW3
NC3
R1
T
NC1
SW1
NC2
SW2
JS3705
0
C3711
50V 0.033u
C3712
50V 0.033u
L3708
J0JCC0000100
L3707
J0JCC0000100
C3703
50V
560p
C3701
50V
560p
R3716
180k
R3717
180k
R3711
0
R3710
0
R3709
0
R3721
10k
R3732
0
D3702
MAZ81400ML
L3701
J0JCC0000364
L3700
J0JCC0000364
R3746
0
R3748
0
ZA3701
K4CD01000013
JS3708
0
JS3707
0
SUFFIX
AE
JS3715
0
R3736
0
R3737
0
R3738
0
R3739
0
R3740
0
R3741
0
JS3714
0
JS3713
0
JS3712
0
JS3711
0
JS3704
0
R3733
0
R3704
0
TO
GK-BOARD
(GK3)
G3
3
2
1
GND
KEY1
KEY2/KEY_EDGE
TO
K-BOARD
(K1)
G1
1 GND
2 R_LED_ON/STBY_LED
3 GND
4 PSM_LEDR
5 RM_IN
6 SUB5V
7 MODEM_LED/KEY3/Active_STB_LED
8 STB3.3V
9 AI_SENSOR
10 GND
11 G_LED_ON
12 GND
TO
H-BOARD
(H51)
G51
30 GND
29 AV4_V
28 GND
27 AV4_C
26 GND
25 AV4_Y
24 V_DET
23 HP_GND
22 AV4_S
21 SUB_MONO
20 AV4_L
19 MAIN_R
18 AV4_R
17 MAIN_L
16 GND
15 HP_GND
14 R_LED_ON/STNBY_LED
13 HP_DET
12 GND
11 GND
10 PSM_LEDR/KEY2/KEYEDGE
9 KEY1
8 SUB5V
7 RM_IN
6 STB3.3V
5 MODEM_LED/KEY3/ Active_STBY_LED
4 AI_SENSOR
3 GND
2 GND
1 G_LED_ON

TH-50PV60E, TH-50PX60B
G-Board Schematic Diagram

TH-50PV60E, TH-50PX60B
G-Board Schematic Diagram

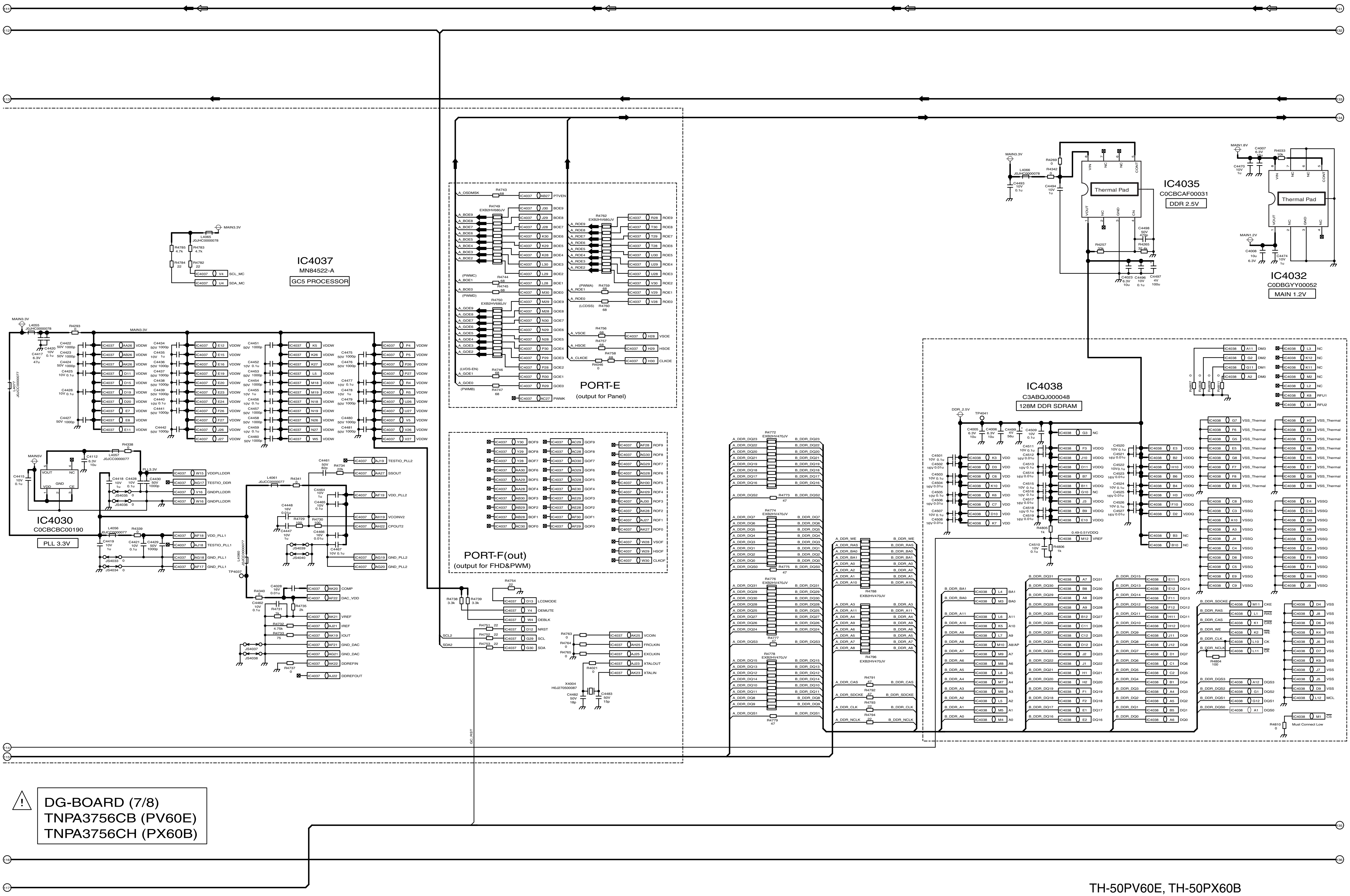
1 2 3 4 5 6 7 8


IC4036
C0JBAP000020
LVDS TRANSMITTER(10bit)
MAIN3.3V
LVDS_PD
TO
D-BOARD
(D5)
DG5
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+
PX60B ONLY
TO
XV-BOARD
(XV01)
DG22
PV60E ONLY
PV60E ONLY
PV60E ONLY
DTV_RXD
DTV_TXD
DTV_RST
FORMAT_EDGE(MAIN)
JTAG_TCK
JTAG_TMS
JTAG_BA_FS
JTAG_TRST
DTV_SCL0B
DTV_SDA0B
AD_DAT
AD_LRCK
AD_BICK
BS_SL
BS_SR
SOFT_OFF
BS_Y(V)
MAIN_L
MAIN_R
SUB9V
SUB5V
FOR
FACTORY
USE
DG35
TCK
TMS
TDI
GND
TDO
TRST
XRST
SUFFIX
CB
CH
JTAG

DG-BOARD (8/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B
DG-Board (8 of 8) Schematic Diagram

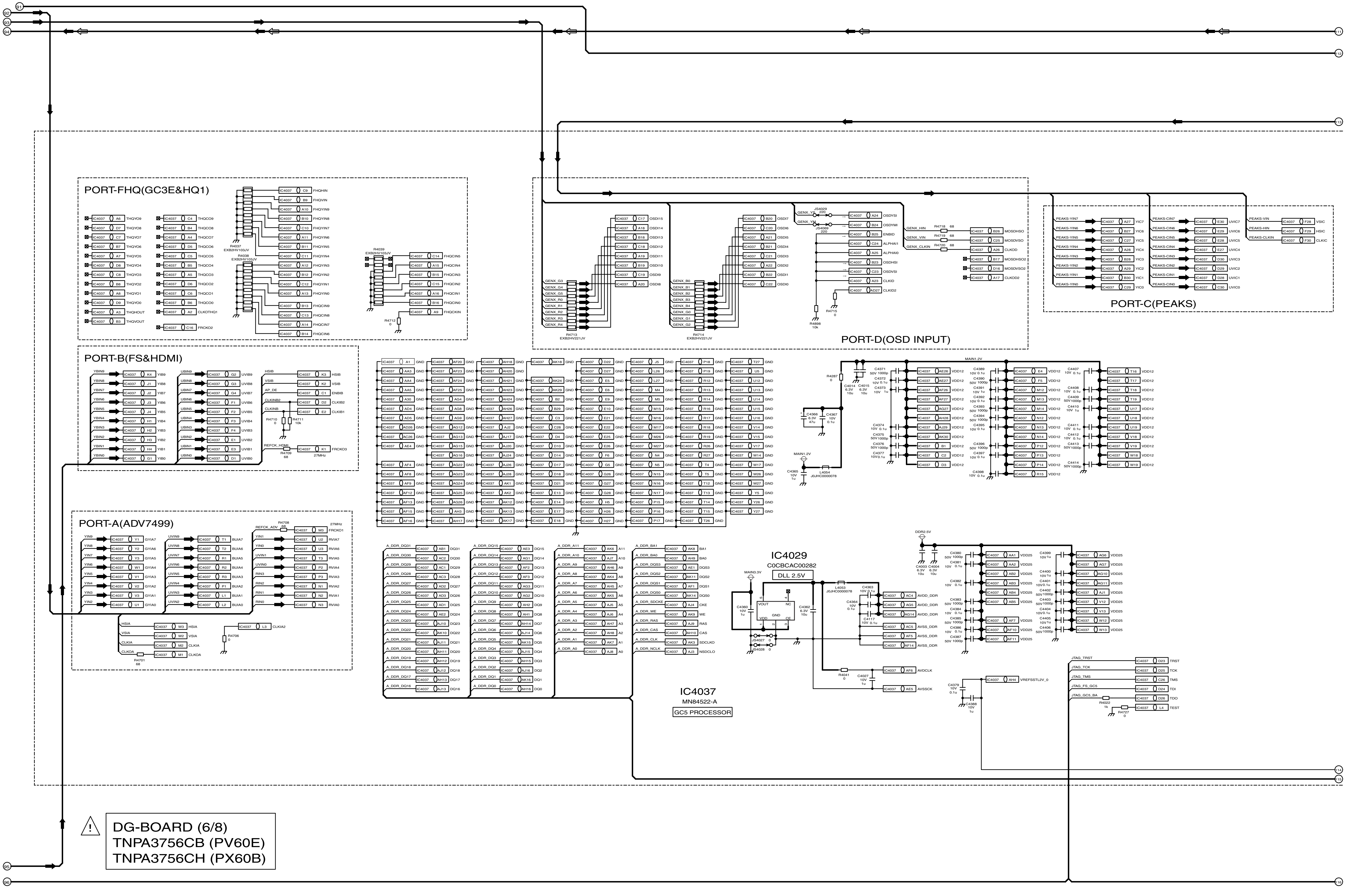
TH-50PV60E, TH-50PX60B
DG-Board (8 of 8) Schematic Diagram


IC4037
MN84522-A
GC5 PROCESSOR
IC4030
C0CBCBC00190
PLL 3.3V
PORT-E
(output for Panel)
PORT-F(out)
(output for FHD&PWM)
IC4038
C3ABQJ000048
128M DDR SDRAM
IC4035
C0CBCAF00031
DDR 2.5V
IC4032
C0DBGYY00052
MAIN 1.2V
Thermal Pad
MAIN3.3V
MAIN5V
MAIN1.8V
MAIN1.2V
DDR_2.5V

⚠ DG-BOARD (7/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (7 of 8) Schematic Diagram

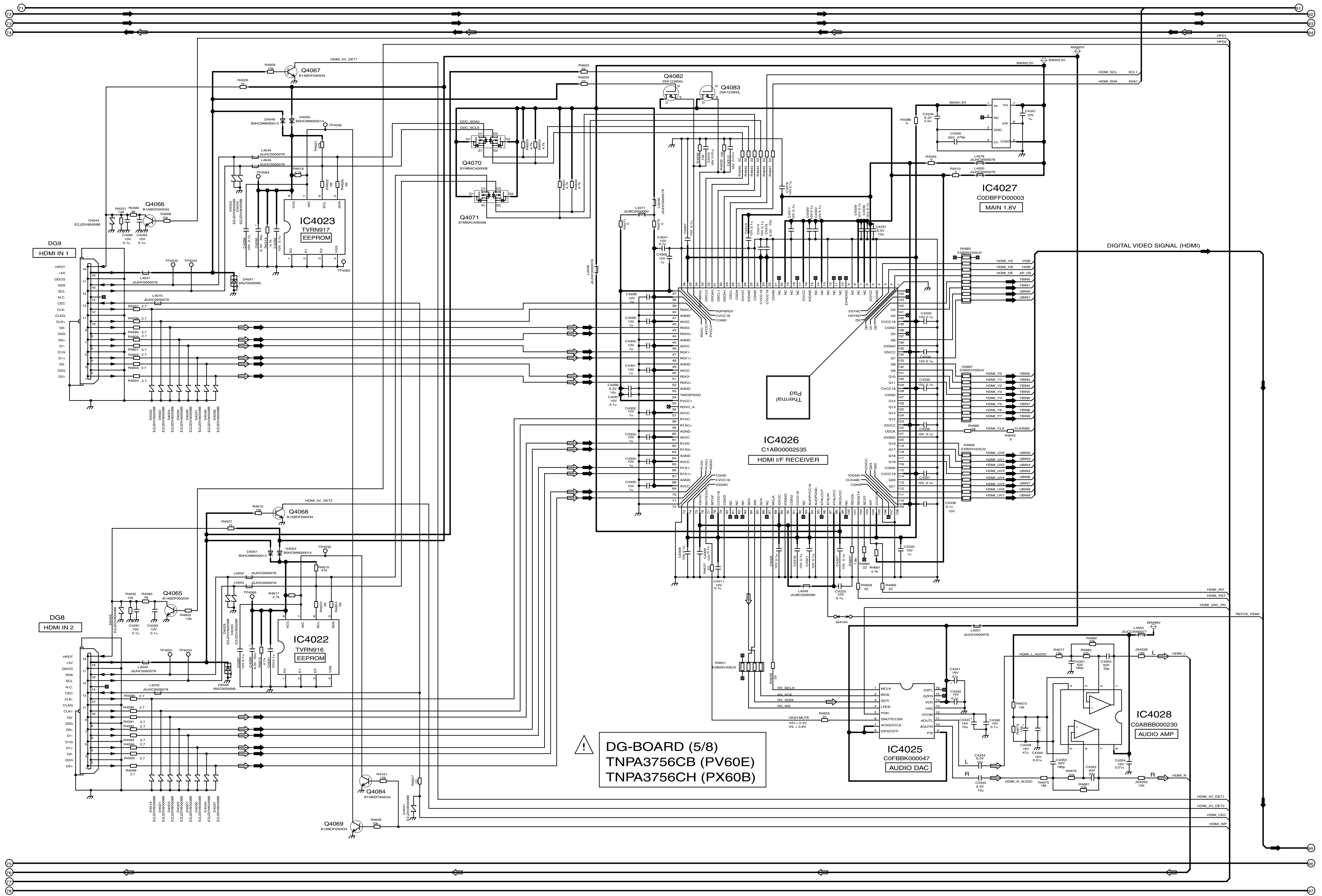
TH-50PV60E, TH-50PX60B
DG-Board (7 of 8) Schematic Diagram


PORT-FHQ(GC3E&HQ1)
PORT-B(FS&HDMI)
PORT-A(ADV7499)
PORT-D(OSD INPUT)
PORT-C(PEAKS)
IC4029
C0CBCAC00282
DLL 2.5V
IC4037
MN84522-A
GC5 PROCESSOR
MAIN1.2V
MAIN3.3V
DDR2.5V

DG-BOARD (6/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (6 of 8) Schematic Diagram

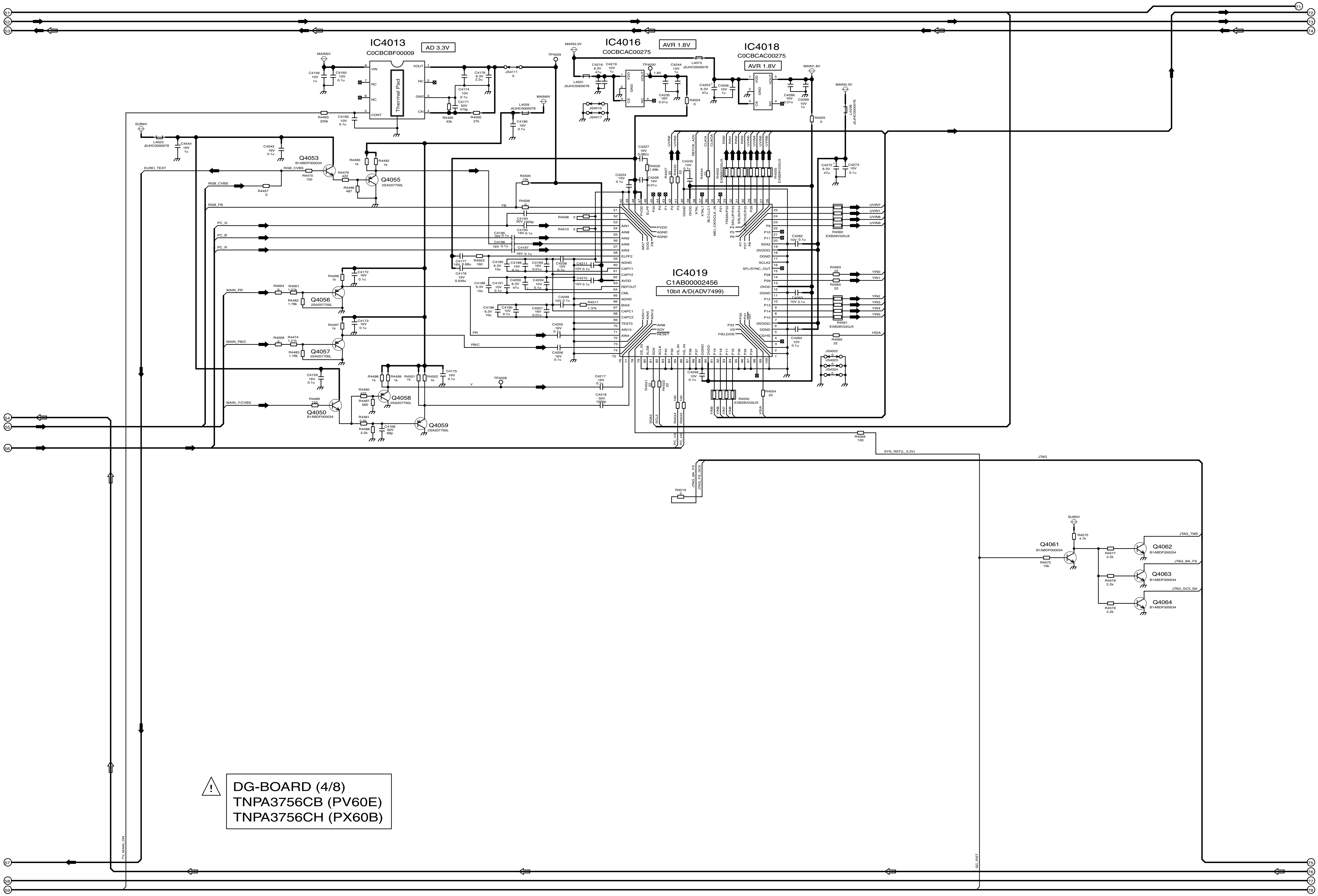
TH-50PV60E, TH-50PX60B DG-Board (6 of 8) Schematic Diagram


DG9
HDMI IN 1
DG8
HDMI IN 2
HPDT
+5V
DDCG
SDA
SCL
N.C.
CEC
CLK-
CLKG
CLK+
D0-
D0G
D0+
D1-
D1G
D1+
D2-
D2G
D2+
Q4066
Q4067
Q4065
Q4068
Q4070
Q4071
Q4082
Q4083
Q4084
Q4069
HDMI_5V_DET1
HDMI_5V_DET2
IC4023
TVRN917
EEPROM
IC4022
TVRN916
EEPROM
DDC_SDA0
DDC_SCL0
IC4026
C1AB00002535
HDMI I/F RECEIVER
Thermal Pad
IC4027
C0DBFFD00003
MAIN 1.8V
MAIN1.8V
MAIN3.3V
MAIN5V
DIGITAL VIDEO SIGNAL (HDMI)
HDMI_SCL
HDMI_SDA
SCL1
SDA1
HPD1
HPD2
HDMI_VS
HDMI_HS
HDMI_DE
HDMI_CLK
HDMI_INT
HDMI_RST
HDMI_DAC_PD
REFCK_HDMI
IC4025
C0FBBK000047
AUDIO DAC
IC4028
C0ABBB000230
AUDIO AMP
HDMI_L_AUDIO
HDMI_R_AUDIO
HDMI_L
HDMI_R
HDMI_CEC
HDMI_WP
RX_MCLK
RX_SCK
RX_SD0#
RX_WS
HIGH:MUTE
VIH = 2.2V
VIL = 0.8V
L
R
71
72
73
74
75
76
77
78
91
92
93
94
95
96
97

DG-BOARD (5/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (5 of 8) Schematic Diagram

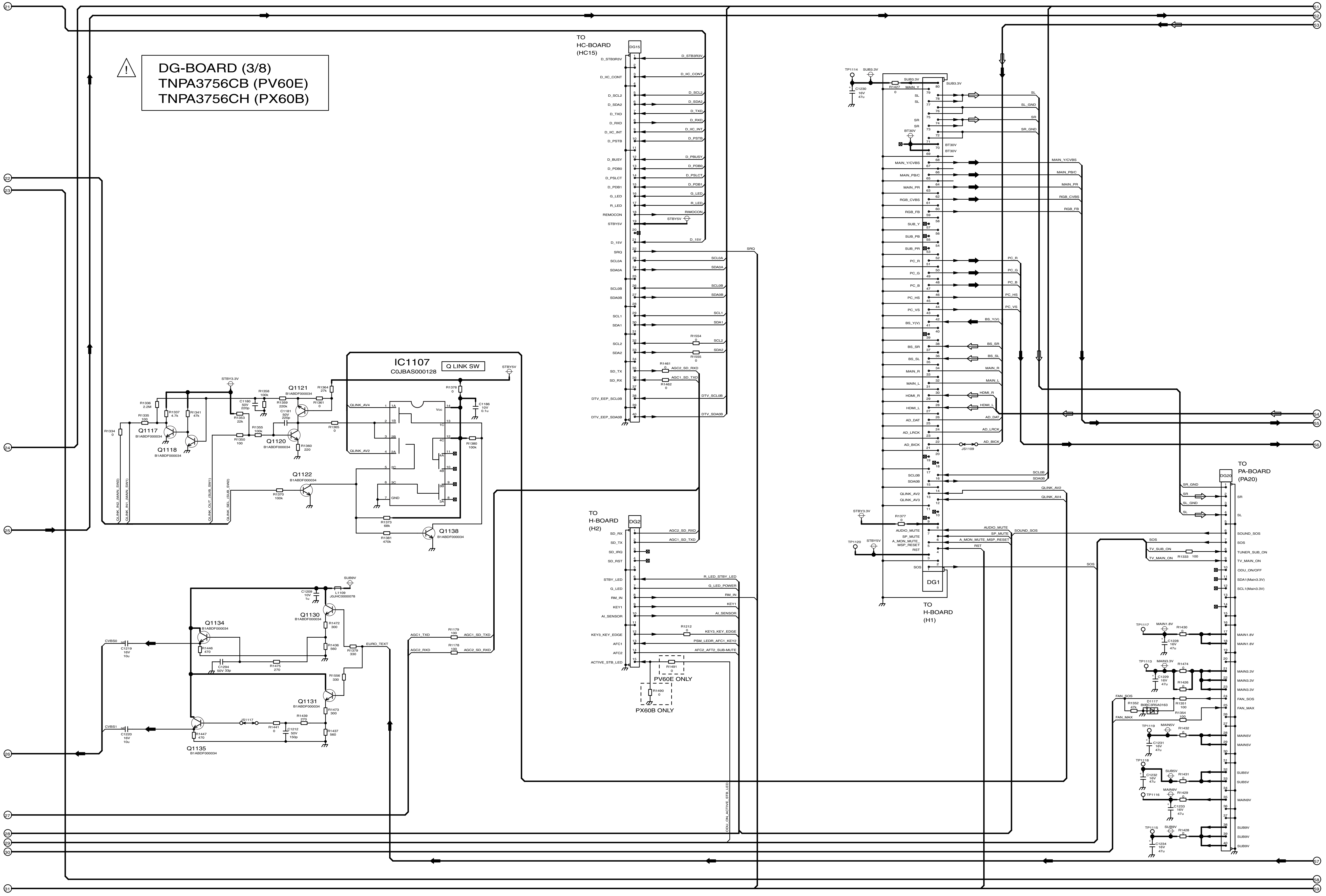
TH-50PV60E, TH-50PX60B DG-Board (5 of 8) Schematic Diagram


IC4013
C0CBCBF00009
AD 3.3V
Thermal Pad
IC4016
C0CBCAC00275
AVR 1.8V
IC4018
C0CBCAC00275
AVR 1.8V
IC4019
C1AB00002456
10bit A/D(ADV7499)
Q4053
B1ABDF000034
Q4055
2SA207700L
Q4056
2SA207700L
Q4057
2SA207700L
Q4058
2SA207700L
Q4050
B1ABDF000034
Q4059
2SA207700L
Q4061
B1ABDF000034
Q4062
B1ABDF000034
Q4063
B1ABDF000034
Q4064
B1ABDF000034
MAIN5V
MAIN9V
MAIN3.3V
MAIN1.8V
SUB9V
SUB5V
TP4029
TP4030
TP4028
EURO_TEXT
RGB_CVBS
RGB_FB
PC_G
PC_B
PC_R
MAIN_PR
MAIN_PB/C
MAIN_Y/CVBS
PR
PB/C
Y
FB
UVIN7
UVIN1
UVIN8
UVIN9
YIN0
YIN1
YIN2
YIN3
YIN4
YIN5
HSIA
SYS_RST(L_3.3V)
JTAG
JTAG_TMS
JTAG_BA_FS
JTAG_GC5_BA
JTAG_FS_GC5
TV_MAIN_ON
GC_RST
EXB28V220JX

DG-BOARD (4/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

TH-50PV60E, TH-50PX60B DG-Board (4 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B DG-Board (4 of 8) Schematic Diagram


DG-BOARD (3/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
TO
HC-BOARD
(HC15)
DG15
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
D_PSTB
D_BUSY
D_PDB0
D_PSLCT
D_PDB1
G_LED
R_LED
REMOCON
STBY5V
D_15V
SRQ
SCL0A
SDA0A
SCL0B
SDA0B
SCL1
SDA1
SCL2
SDA2
SD_TX
SD_RX
DTV_EEP_SCL0B
DTV_EEP_SDA0B
AGC2_SD_RXD
AGC1_SD_TXD
IC1107
C0JBAS000128
Q LINK SW
STBY5V
STBY3.3V
QLINK_AV4
QLINK_AV2
Q1117
B1ABDF000034
Q1118
B1ABDF000034
Q1120
B1ABDF000034
Q1121
B1ABDF000034
Q1122
B1ABDF000034
Q1138
B1ABDF000034
QLINK_IN2_(MAIN_SW2)
QLINK_IN1_(MAIN_SW1)
QLINK_OUT_(SUB_SW1)
QLINK_SEL_(SUB_SW2)
SUB9V
L1109
J0JHC0000078
Q1130
B1ABDF000034
Q1134
B1ABDF000034
Q1131
B1ABDF000034
Q1135
B1ABDF000034
CVBS0
CVBS1
EURO_TEXT
JS1117
AGC1_TXD
AGC2_RXD
AGC1_SD_TXD
AGC2_SD_RXD
TO
H-BOARD
(H2)
DG2
SD_RX
SD_TX
SD_IRQ
SD_RST
STBY_LED
G_LED
RM_IN
KEY1
AI_SENSOR
KEY3_KEY_EDGE
AFC1
AFC2
ACTIVE_STB_LED
R_LED_STBY_LED
G_LED_POWER
PSM_LEDR_AFC1_KEY2
AFC2_AFT2_SUB-MUTE
PV60E ONLY
PX60B ONLY
ODU_ON_ACTIVE_STB_LED
TP1114
SUB3.3V
SL
SL_GND
SR
SR_GND
BT30V
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
RGB_CVBS
RGB_FB
SUB_Y
SUB_PB
SUB_PR
PC_R
PC_G
PC_B
PC_HS
PC_VS
BS_Y(V)
BS_SR
BS_SL
MAIN_R
MAIN_L
HDMI_R
HDMI_L
AD_DAT
AD_LRCK
AD_BICK
JS1109
SCL0B
SDA0B
QLINK_AV2
QLINK_AV3
QLINK_AV4
STBY3.3V
AUDIO_MUTE
SP_MUTE
A_MON_MUTE_MSP_RESET
RST
SOS
SOUND_SOS
TP1120
DG1
TO
H-BOARD
(H1)
TO
PA-BOARD
(PA20)
DG20
TUNER_SUB_ON
TV_MAIN_ON
ODU_ON/OFF
SDA1(Main3.3V)
SCL1(Main3.3V)
MAIN1.8V
MAIN3.3V
FAN_SOS
FAN_MAX
D1117
B0BC3RSA0163
MAIN5V
SUB5V
MAIN9V
SUB9V
TP1117
TP1113
TP1119
TP1118
TP1116
TP1115
21
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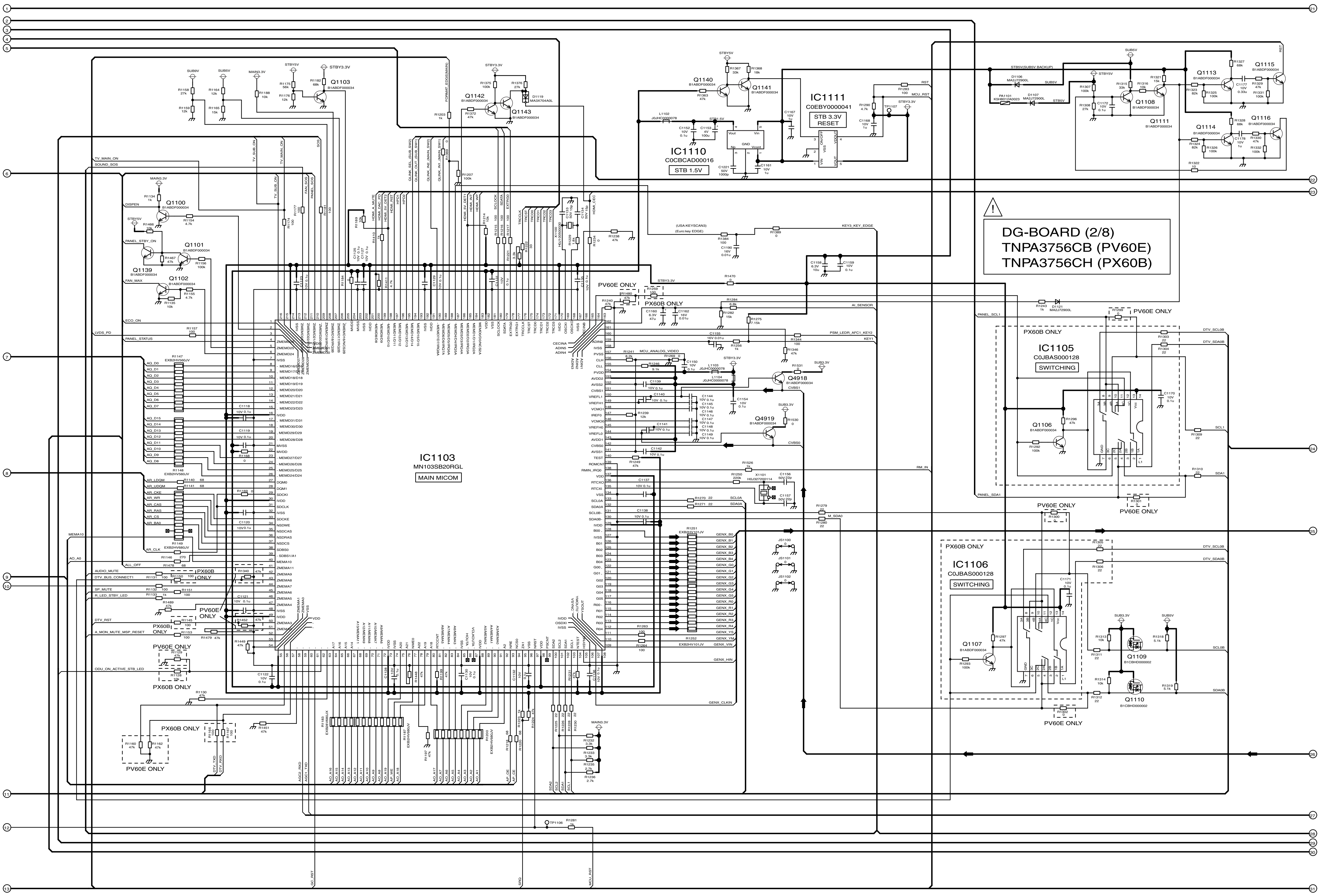
TH-50PV60E, TH-50PX60B DG-Board (3 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B DG-Board (3 of 8) Schematic Diagram


DG-BOARD (2/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)
IC1103
MN103SB20RGL
MAIN MICOM
IC1110
C0CBCAD00016
STB 1.5V
IC1111
C0EBY0000041
STB 3.3V RESET
IC1105
C0JBAS000128
SWITCHING
IC1106
C0JBAS000128
SWITCHING
Q1100
Q1101
Q1102
Q1103
Q1106
Q1107
Q1108
Q1109
Q1110
Q1111
Q1113
Q1114
Q1115
Q1116
Q1139
Q1140
Q1141
Q1142
Q1143
Q4918
Q4919
PV60E ONLY
PX60B ONLY
STBY3.3V
STBY5V
SUB5V
SUB3.3V
MAIN3.3V
SUB9V
TV_MAIN_ON
SOUND_SOS
PANEL_STBY_ON
FAN_MAX
ECO_ON
LVDS_PD
PANEL_STATUS
AUDIO_MUTE
DTV_BUS_CONNECT1
SP_MUTE
R_LED_STBY_LED
DTV_RST
A_MON_MUTE_MSP_RESET
ODU_ON_ACTIVE_STB_LED
AI_SENSOR
PSM_LEDR_AFC1_KEY2
KEY1
KEY3_KEY_EDGE
RM_IN
PANEL_SCL1
PANEL_SDA1
DTV_SCL0B
DTV_SDA0B
SCL1
SDA1
SCL0B
SDA0B
GENX_CLKIN
MCU_RST
IIC_RST
1
2
3
4
5
6
7
8
9
10
11
12
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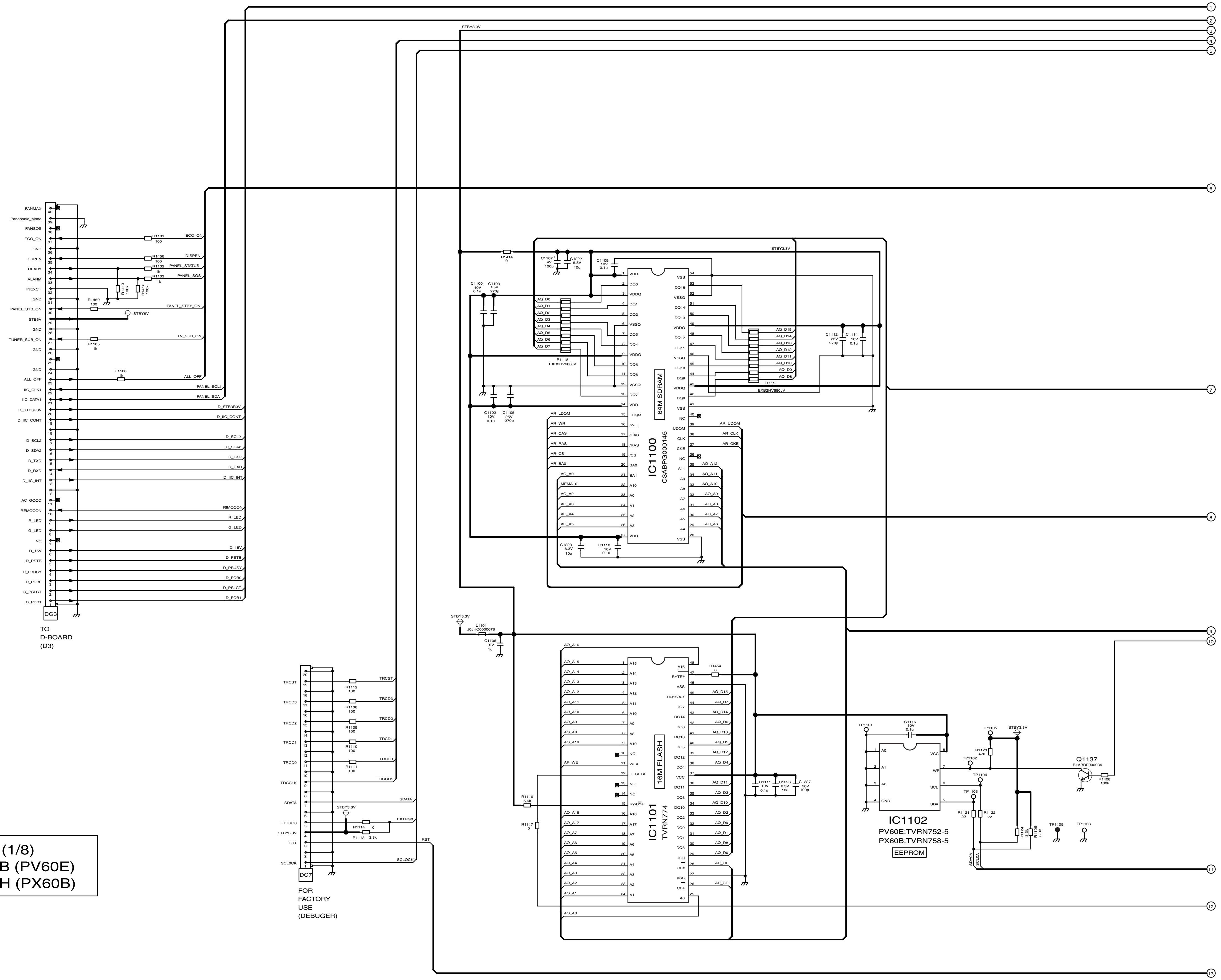
TH-50PV60E, TH-50PX60B DG-Board (2 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B DG-Board (2 of 8) Schematic Diagram

10 11 12 13 14 15 16 17 18



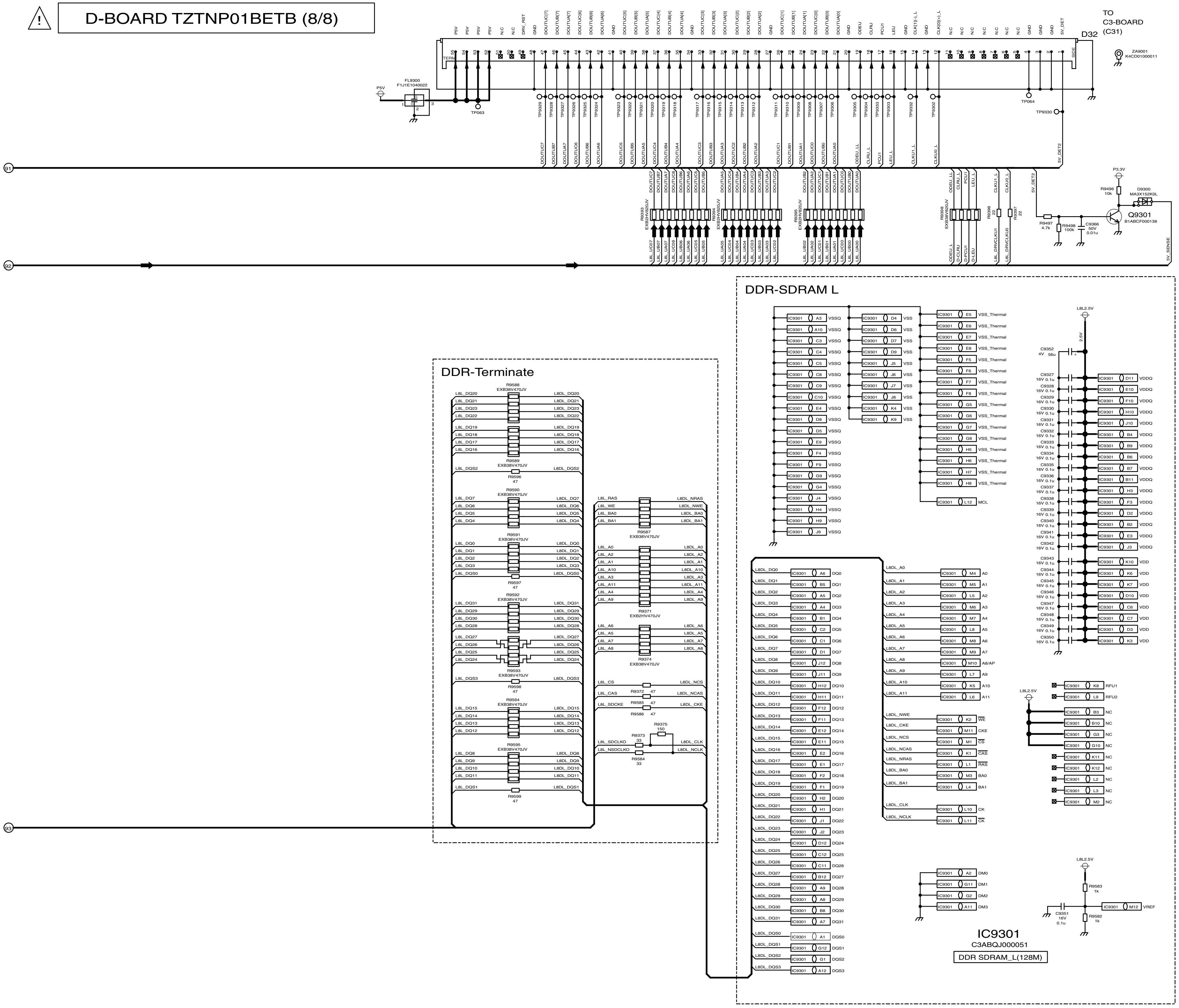
STBY3.3V
FANMAX
Panasonic_Mode
FANSOS
ECO_ON
GND
DISPEN
READY
ALARM
INEXCH
PANEL_STB_ON
STB5V
TUNER_SUB_ON
ALL_OFF
IIC_CLK1
IIC_DATA1
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
AC_GOOD
REMOCON
R_LED
G_LED
NC
D_15V
D_PSTB
D_PBUSY
D_PDB0
D_PSLCT
D_PDB1
DG3
TO
D-BOARD
(D3)
R1101 100
R1458 100
R1102 1k
R1103 1k
R1413 100k
R1412 100k
R1459 100
R1105 1k
R1106 1k
PANEL_STATUS
PANEL_SOS
PANEL_STBY_ON
TV_SUB_ON
PANEL_SCL1
PANEL_SDA1
RIMOCON
TRCST
TRCD3
TRCD2
TRCD1
TRCD0
TRCCLK
SDATA
EXTRG0
RST
SCLOCK
R1112 100
R1108 100
R1109 100
R1110 100
R1111 100
R1114 0
R1113 3.3k
DG7
FOR
FACTORY
USE
(DEBUGER)
R1414 0
C1107 4V 100u
C1222 6.3V 10u
C1109 10V 0.1u
C1100 10V 0.1u
C1103 25V 270p
C1102 10V 0.1u
C1105 25V 270p
C1112 25V 270p
C1114 10V 0.1u
C1223 6.3V 10u
C1110 10V 0.1u
R1118 EXB2HV680JV
R1119 EXB2HV680JV
AQ_D0
AQ_D1
AQ_D2
AQ_D3
AQ_D4
AQ_D5
AQ_D6
AQ_D7
AQ_D8
AQ_D9
AQ_D10
AQ_D11
AQ_D12
AQ_D13
AQ_D14
AQ_D15
AR_LDQM
AR_WR
AR_CAS
AR_RAS
AR_CS
AR_BA0
AR_UDQM
AR_CLK
AR_CKE
AO_A0
MEMA10
AO_A2
AO_A3
AO_A4
AO_A5
AO_A6
AO_A7
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
64M SDRAM
IC1100
C3ABPG000145
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10
A0
A1
A2
A3
VSS
DQ15
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
UDQM
CLK
CKE
A11
A9
A8
A7
A6
A5
A4
L1101 J0JHC0000078
C1106 10V 1u
R1454 0
R1116 5.6k
R1117 0
AO_A13
AO_A14
AO_A15
AO_A16
AO_A17
AO_A18
AO_A19
AO_A1
AP_WE
AP_OE
AP_CE
16M FLASH
IC1101
TVRN774
A16
BYTE#
DQ15/A-1
WE#
RESET#
RY/BY#
OE#
CE#
C1111 10V 0.1u
C1226 6.3V 10u
C1227 50V 100p
TP1101
C1116 10V 0.1u
TP1105
R1123 47k
TP1102
TP1104
TP1103
R1121 22
R1122 22
R1124 3.3k
R1125 3.3k
TP1109
TP1108
A0
A1
A2
GND
VCC
WP
SCL
SDA
IC1102
PV60E:TVRN752-5
PX60B:TVRN758-5
EEPROM
Q1137
B1ABDF000034
R1408 100k
SDA0A
SCL0A
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬

DG-BOARD (1/8)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)

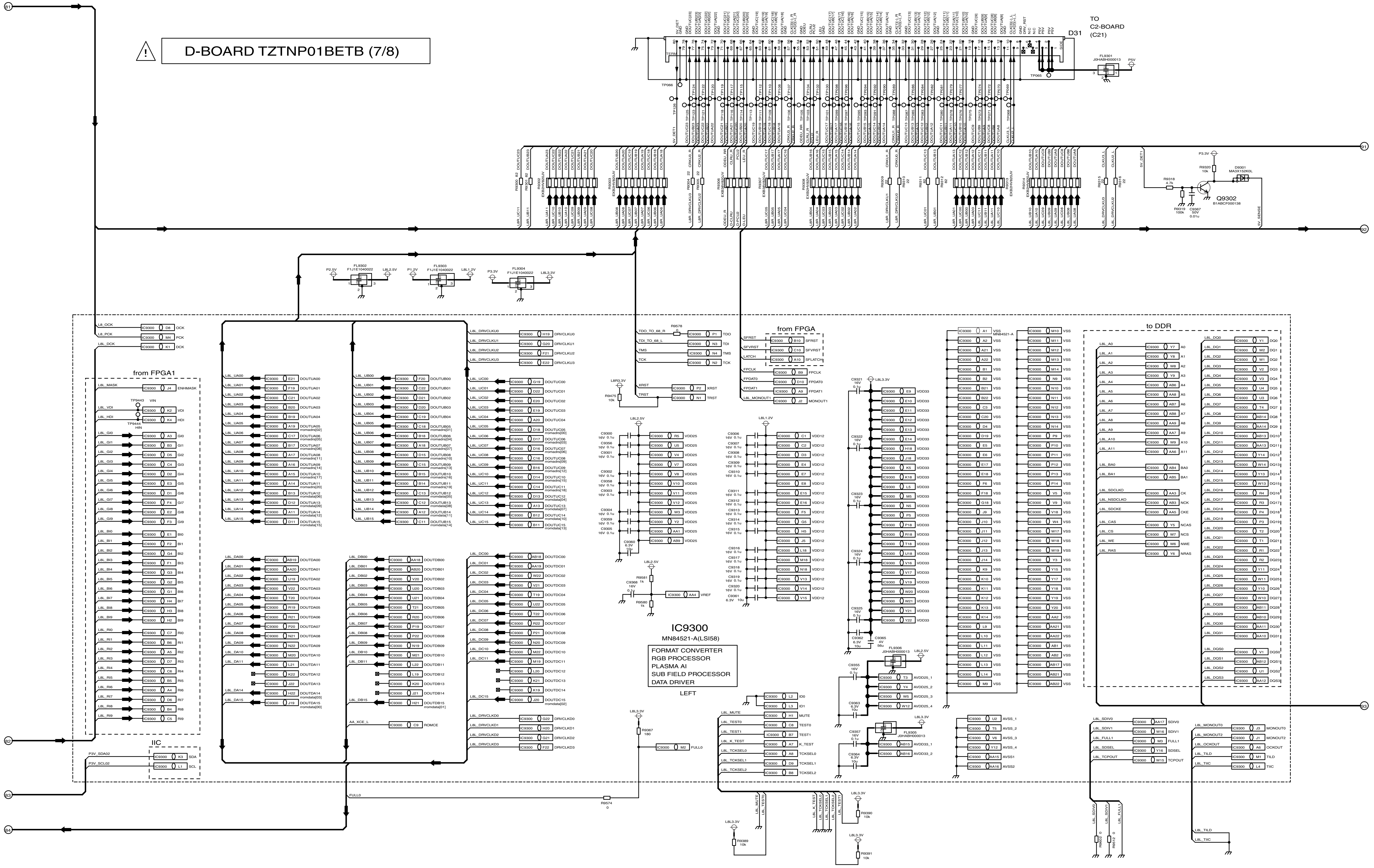
TH-50PV60E, TH-50PX60B
DG-Board (1 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B DG-Board (1 of 8) Schematic Diagram

D-BOARD TZTNP01BETB (8/8)

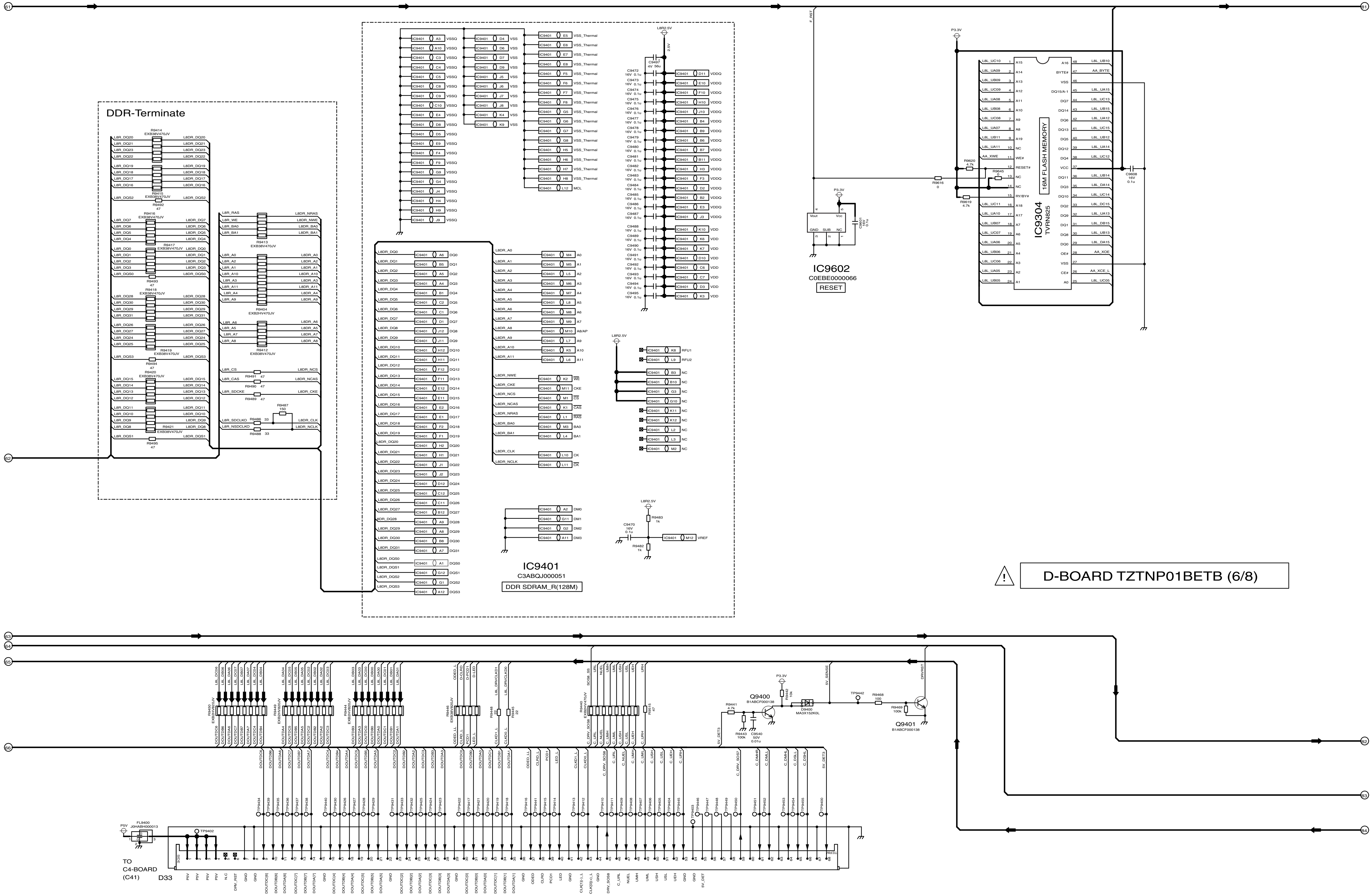


TO
C3-BOARD
(C31)
D32
ZA9001
K4CD01000011
FL9300
F1J1E1040022
P5V
TP063
TP064
TP9330
5V_DET2
P3.3V
R9496
10k
D9300
MA3X152K0L
Q9301
B1ABCF000138
R9497
4.7k
R9498
100k
C9366
50V
0.01u
5V_SENSE
DDR-Terminate
R9588
EXB38V470JV
R9587
EXB38V470JV
R9371
EXB2HV470JV
R9374
EXB38V470JV
DDR-SDRAM L
L8L2.5V
C9352
4V 56u
VDDQ
VDD
VSSQ
VSS
VSS_Thermal
MCL
RFU1
RFU2
NC
R9583
1k
R9582
1k
C9351
16V
0.1u
VREF
IC9301
C3ABQJ000051
DDR SDRAM_L(128M)


D-BOARD TZTNP01BETB (7/8)
TO
C2-BOARD
(C21)
D31
FL9301
J0HABH000013
P5V
FL9302
F1J1E1040022
FL9303
F1J1E1040022
FL9304
F1J1E1040022
P2.5V
L8L2.5V
P1.2V
L8L1.2V
P3.3V
L8L3.3V
Q9302
B1ABCF000138
D9301
MA3X152K0L
from FPGA1
from FPGA
to DDR
IIC
IC9300
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
LEFT
FL9305
J0HABH000013
FL9306
J0HABH000013

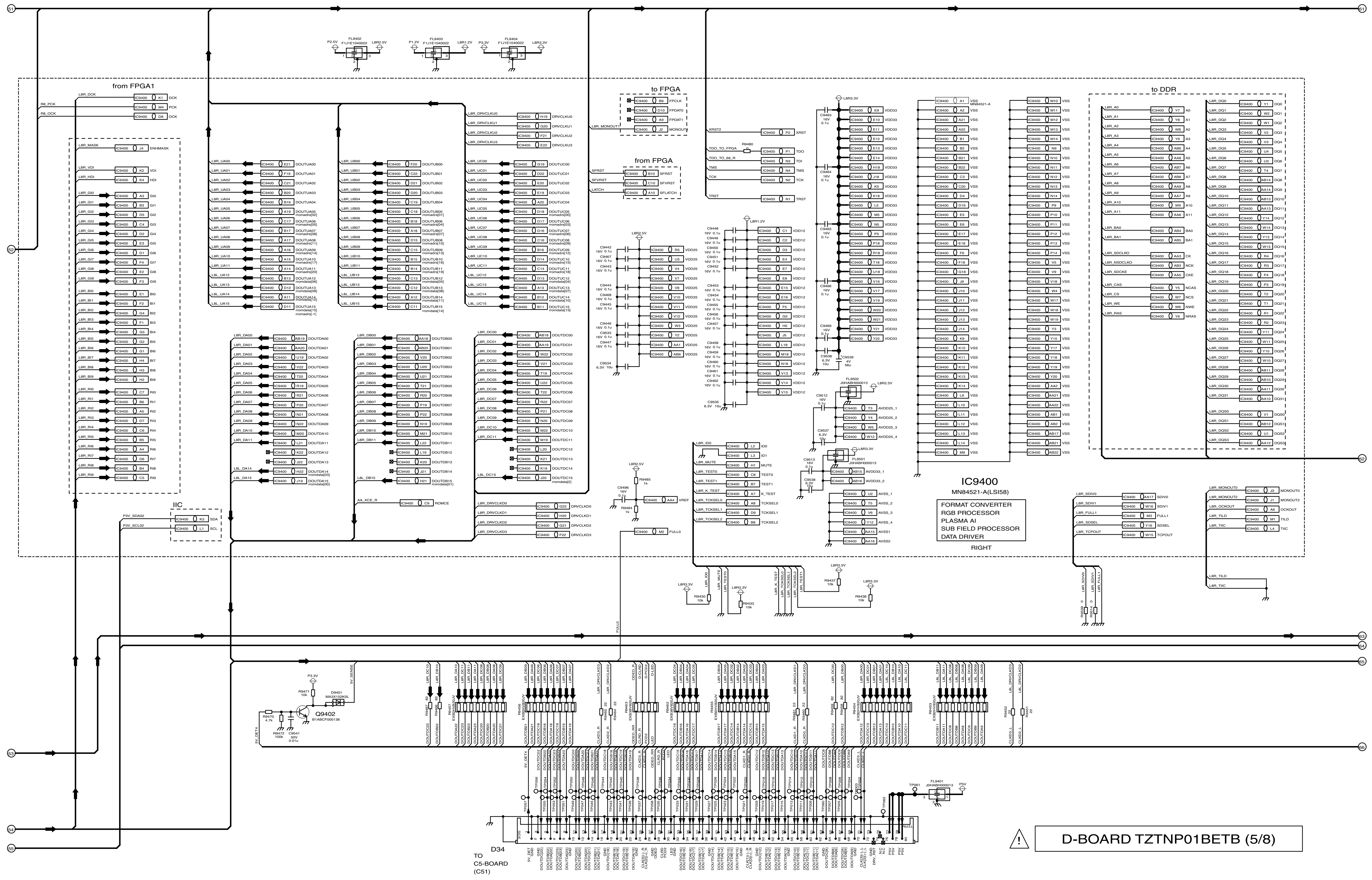
TH-50PV60E, TH-50PX60B
D-Board (7 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B
D-Board (7 of 8) Schematic Diagram


DDR-Terminate
IC9401
C3ABQJ000051
DDR SDRAM_R(128M)
IC9602
C0EBE0000066
RESET
IC9304
TVRN825
16M FLASH MEMORY
Q9400
B1ABCF000138
Q9401
B1ABCF000138
D9400
MA3X152K0L
FL9400
J0HABH000013
TO
C4-BOARD
(C41)
D33
P3.3V
P5V
L8R2.5V
D-BOARD TZTNP01BETB (6/8)

TH-50PV60E, TH-50PX60B
D-Board (6 of 8) Schematic Diagram

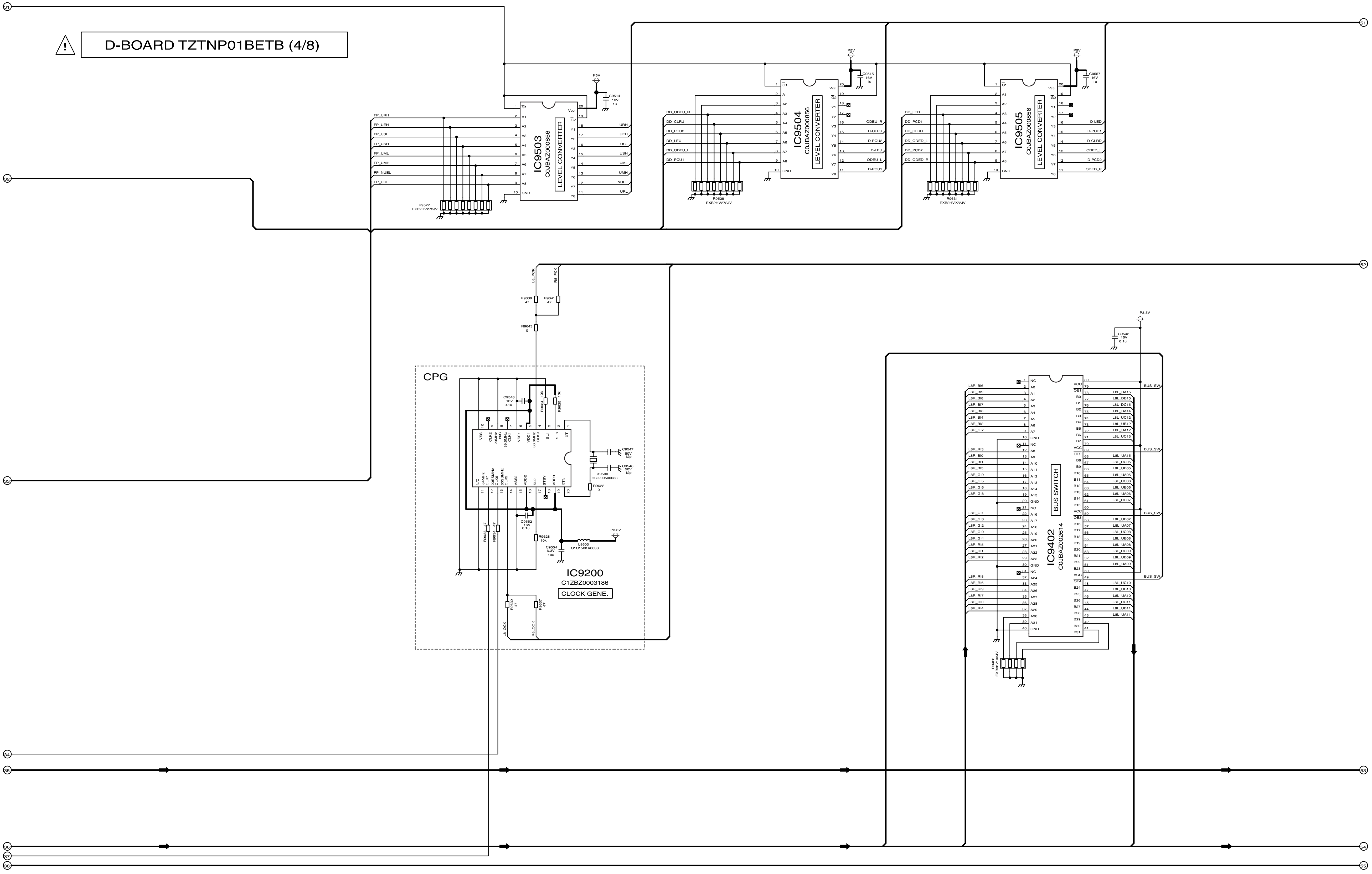
TH-50PV60E, TH-50PX60B
D-Board (6 of 8) Schematic Diagram


from FPGA1
to FPGA
from FPGA
to DDR
IIC
FL9402
F1J1E1040022
FL9403
F1J1E1040022
FL9404
F1J1E1040022
IC9400
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
RIGHT
FL9502
J0HABH000013
FL9501
J0HABH000013
FL9401
J0HABH000013
Q9402
B1ABCF000138
D9401
MA3X152K0L
D34
TO
C5-BOARD
(C51)

D-BOARD TZTNP01BETB (5/8)

TH-50PV60E, TH-50PX60B
D-Board (5 of 8) Schematic Diagram

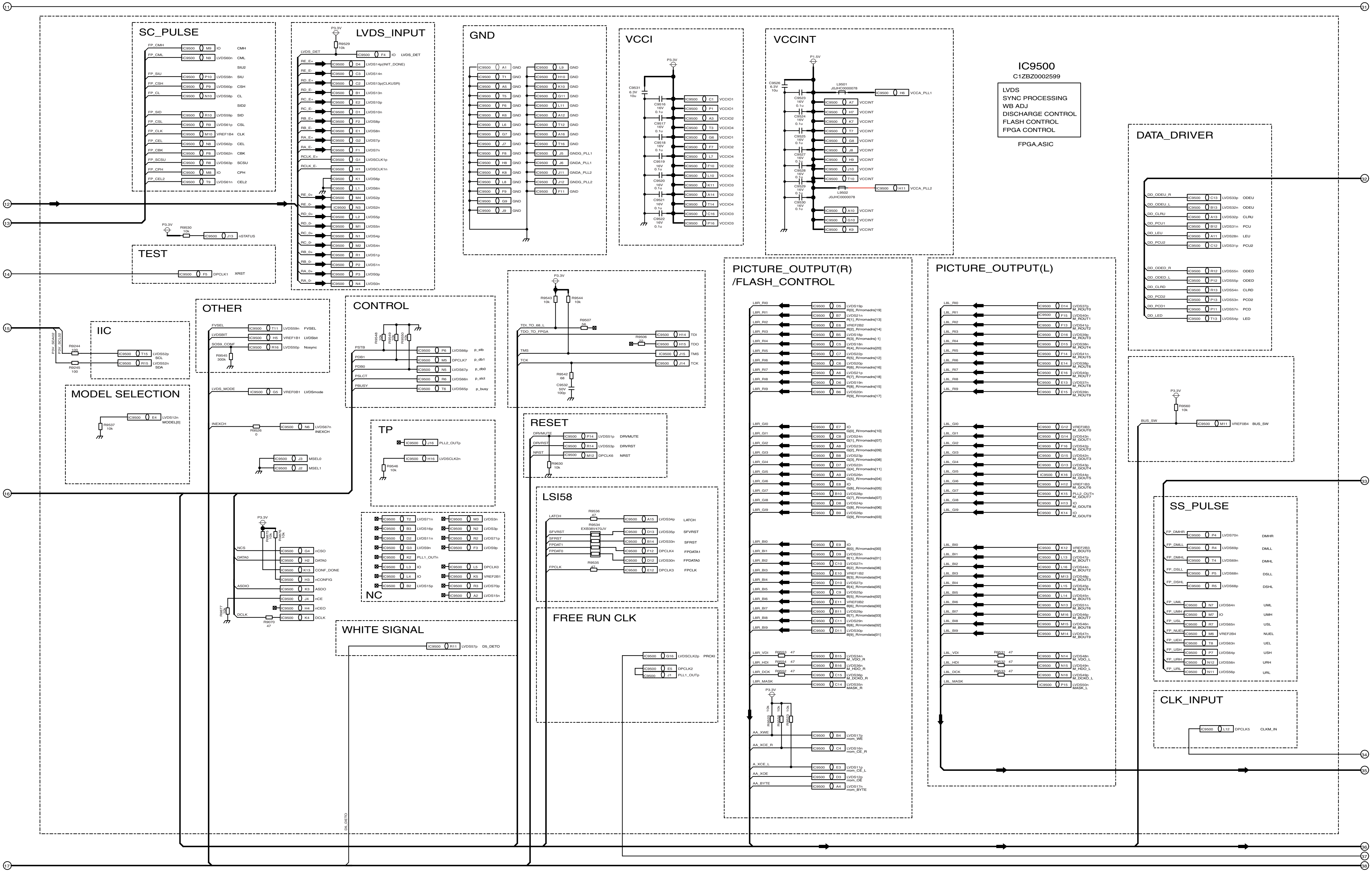
TH-50PV60E, TH-50PX60B
D-Board (5 of 8) Schematic Diagram



D-BOARD TZTNP01BETB (4/8)
IC9503
C0JBAZ000856
LEVEL CONVERTER
IC9504
C0JBAZ000856
LEVEL CONVERTER
IC9505
C0JBAZ000856
LEVEL CONVERTER
R9527
EXB2HV272JV
R9528
EXB2HV272JV
R9631
EXB2HV272JV
C9514
C9515
C9557
P5V
FP_URH
FP_UEH
FP_USL
FP_USH
FP_UML
FP_UMH
FP_NUEL
FP_URL
URH
UEH
USL
USH
UML
UMH
NUEL
URL
DD_ODEU_R
DD_CLRU
DD_PCU2
DD_LEU
DD_ODEU_L
DD_PCU1
ODEU_R
D-CLRU
D-PCU2
D-LEU
ODEU_L
D-PCU1
DD_LED
DD_PCD1
DD_CLRD
DD_ODED_L
DD_PCD2
DD_ODED_R
D-LED
D-PCD1
D-CLRD
ODED_L
D-PCD2
ODED_R
CPG
L8_PCK
R8_PCK
R9639
R9641
R9643
C9548
R9624
R9625
C9547
C9546
X9500
H0J200500038
R9622
C9552
R9628
C9554
L9503
G1C150KA0038
P3.3V
R9633
R9634
R9632
R9637
L8_OCK
R8_OCK
IC9200
C1ZBZ0003186
CLOCK GENE.
IC9402
C0JBAZ002614
BUS SWITCH
C9542
P3.3V
BUS_SW
R9428
EXB38V103JV

TH-50PV60E, TH-50PX60B
D-Board (4 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B
D-Board (4 of 8) Schematic Diagram

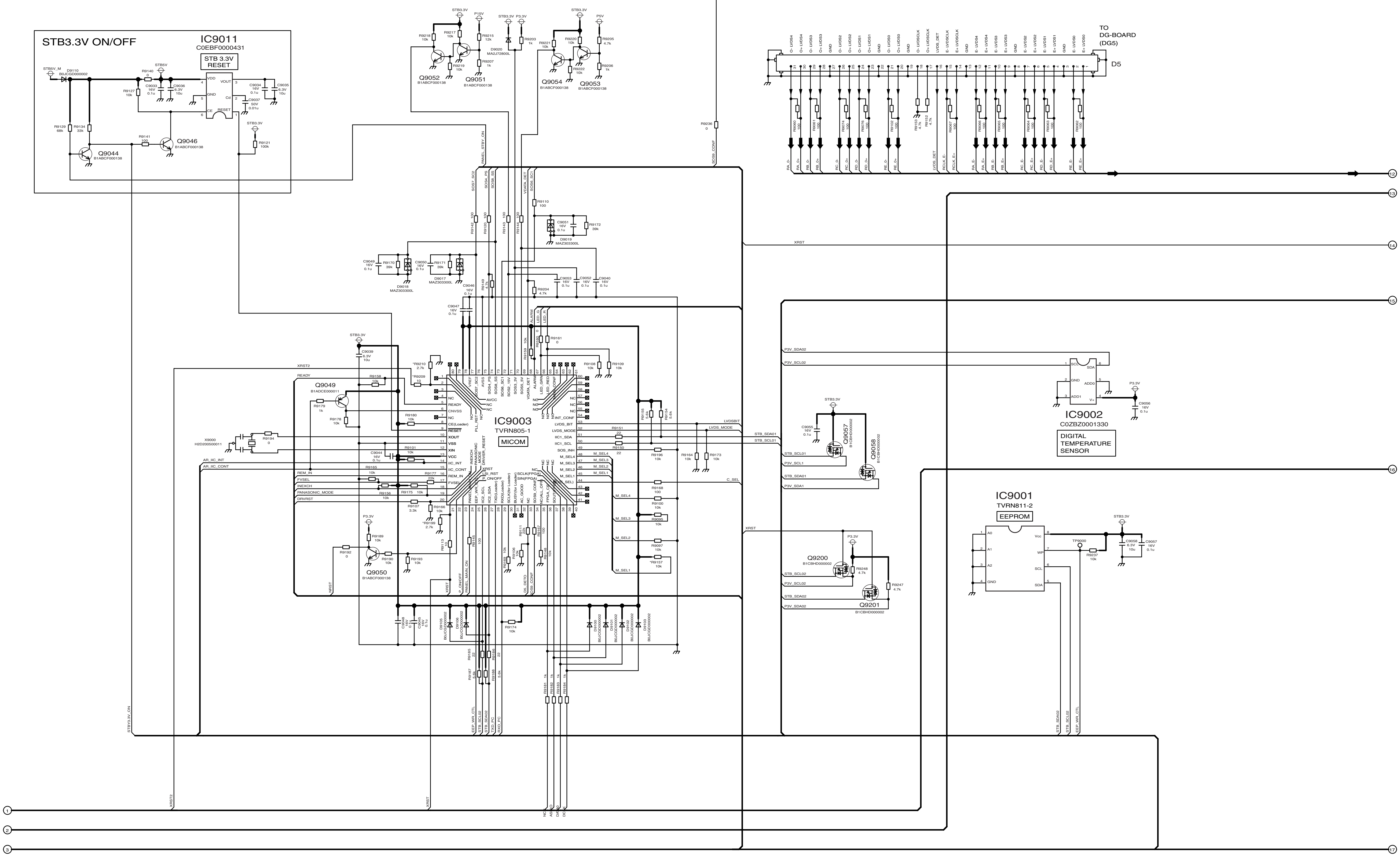

SC_PULSE
LVDS_INPUT
GND
VCCI
VCCINT
IC9500
C1ZBZ0002599
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
FPGA,ASIC
DATA_DRIVER
TEST
OTHER
CONTROL
IIC
MODEL SELECTION
TP
RESET
PICTURE_OUTPUT(R)
/FLASH_CONTROL
PICTURE_OUTPUT(L)
LSI58
NC
WHITE SIGNAL
FREE RUN CLK
SS_PULSE
CLK_INPUT

⚠ D-BOARD TZTNP01BETB (3/8)

TH-50PV60E, TH-50PX60B
D-Board (3 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B
D-Board (3 of 8) Schematic Diagram

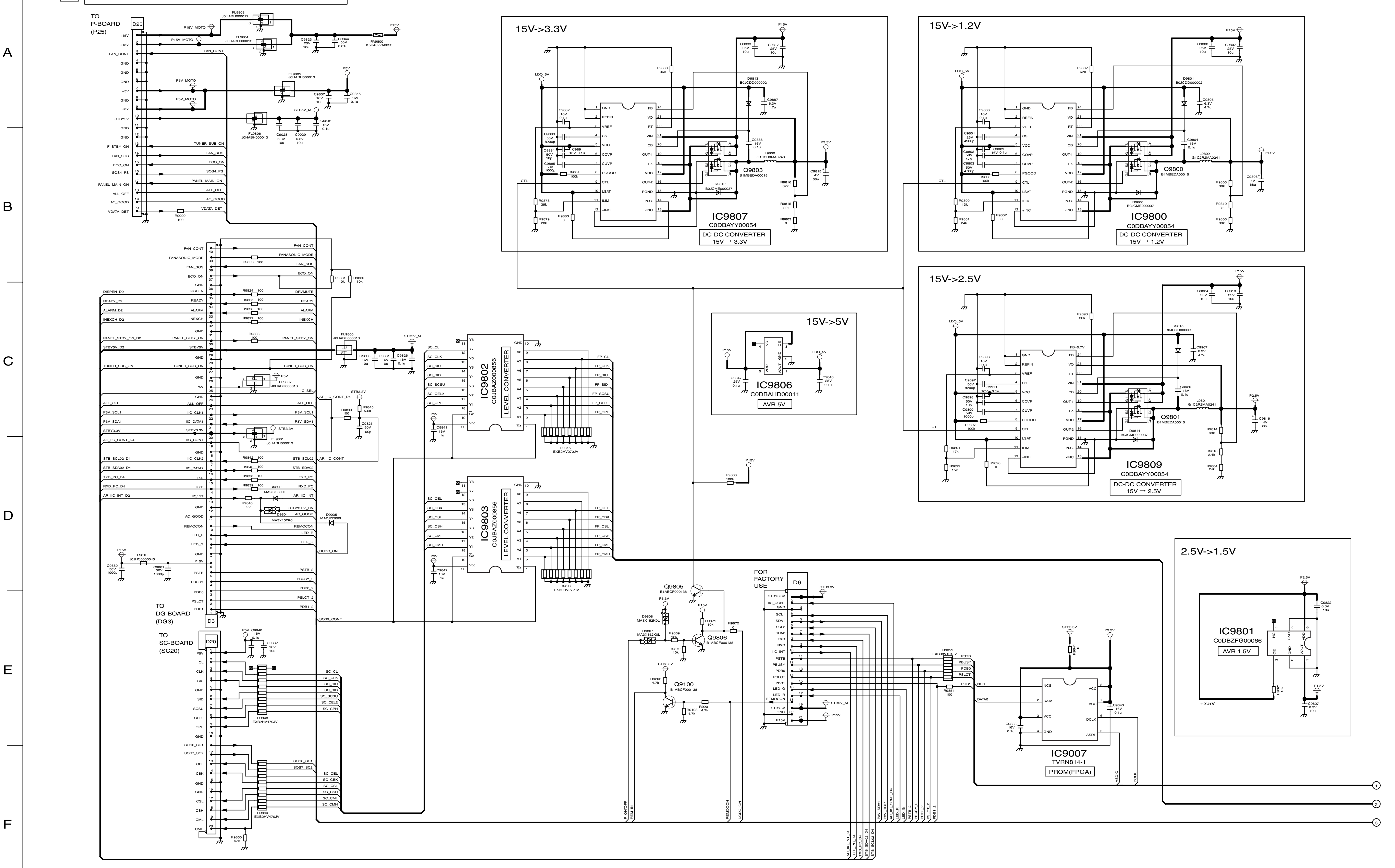
⚠ D-BOARD TZTNP01BETB (2/8)


STB3.3V ON/OFF
IC9011
C0EBF0000431
STB 3.3V
RESET
Q9044
B1ABCF000138
Q9046
B1ABCF000138
Q9052
B1ABCF000138
Q9051
B1ABCF000138
Q9054
B1ABCF000138
Q9053
B1ABCF000138
D9020
MA2J72800L
STB3.3V
P15V
P3.3V
P5V
STB5V
D9018
MAZ303300L
D9017
MAZ303300L
D9019
MAZ303300L
IC9003
TVRN805-1
MICOM
Q9049
B1ADCE000011
Q9050
B1ABCF000138
X9000
H2D200500011
TO
DG-BOARD
(DG5)
D5
IC9002
C0ZBZ0001330
DIGITAL
TEMPERATURE
SENSOR
IC9001
TVRN811-2
EEPROM
Q9057
B1CBHD000002
Q9058
B1CBHD000002
Q9200
B1CBHD000002
Q9201
B1CBHD000002
TP9000
XRST
XRST2
READY
AR_IIC_INT
AR_IIC_CONT
REM_IN
FVSEL
INEXCH
PANASONIC_MODE
DRVRST
LVDSBIT
LVDS_MODE
STB_SDA01
STB_SCL01
C_SEL
P3V_SDA02
P3V_SCL02
STB_SCL01
STB_SDA01
STB_SCL02
STB_SDA02
EEP_WR_CTL
STBY3.3V_ON
PANEL_STBY_ON
SOS9_CONF
VDATA_DET
M_SEL1
M_SEL2
M_SEL3
M_SEL4
①
②
③
⑪
⑫
⑬
⑭
⑮
⑯
⑰

TH-50PV60E, TH-50PX60B
D-Board (2 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B
D-Board (2 of 8) Schematic Diagram

D-BOARD TZTNP01BETB (1/8)

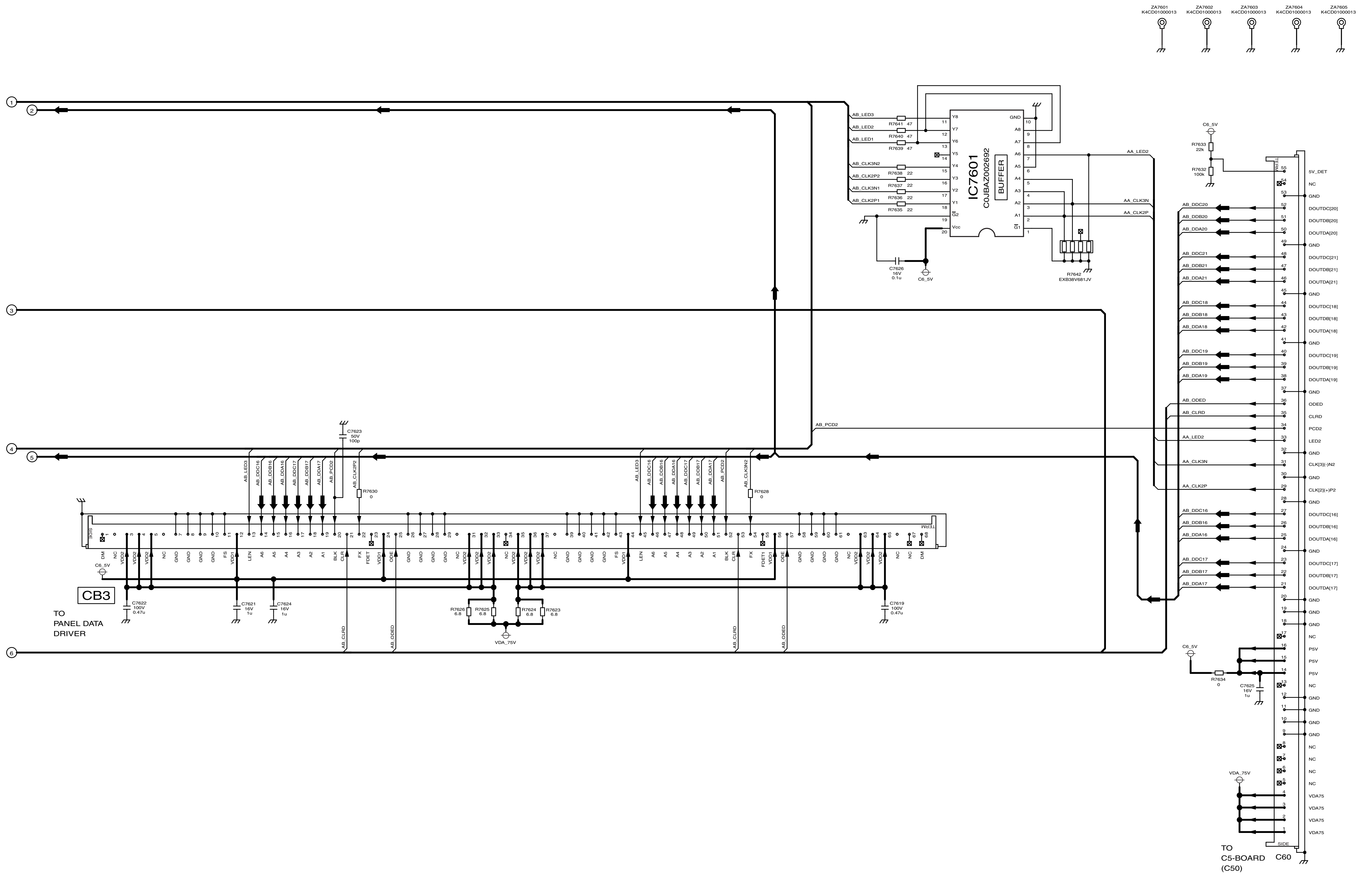


TO P-BOARD (P25)
D25
FL9803 J0HABH000012
FL9804 J0HABH000012
FL9805 J0HABH000013
FL9806 J0HABH000013
PA9800 K5H4022A0023
P15V_MOTO
P5V_MOTO
STB5V_M
FAN_CONT
TUNER_SUB_ON
FAN_SOS
ECO_ON
SOS4_PS
PANEL_MAIN_ON
ALL_OFF
AC_GOOD
VDATA_DET
R9099 100
15V->3.3V
IC9807
C0DBAYY00054
DC-DC CONVERTER
15V → 3.3V
Q9803 B1MBEDA00015
L9800 G1C3R9MA0248
15V->1.2V
IC9800
C0DBAYY00054
DC-DC CONVERTER
15V → 1.2V
Q9800 B1MBEDA00015
L9802 G1C2R2MA0241
15V->2.5V
IC9809
C0DBAYY00054
DC-DC CONVERTER
15V → 2.5V
Q9801 B1MBEDA00015
L9801 G1C2R2MA0241
15V->5V
IC9806
C0DBAHD00011
AVR 5V
2.5V->1.5V
IC9801
C0DBZFG00066
AVR 1.5V
+2.5V
P1.2V
P3.3V
P2.5V
P1.5V
LDO_5V
IC9802
C0JBAZ000856
LEVEL CONVERTER
IC9803
C0JBAZ000856
LEVEL CONVERTER
R9846 EXB2HV272JV
R9847 EXB2HV272JV
FL9800 J0HABH000013
FL9807 J0HABH000013
FL9801 J0HABH000013
D9802 MA2J72800L
D9804 MA3X152K0L
D9835 MA2J72800L
L9810 J0JHC0000045
TO DG-BOARD (DG3)
D3
TO SC-BOARD (SC20)
D20
R9848 EXB2HV470JV
R9849 EXB2HV470JV
Q9805 B1ABCF000138
Q9806 B1ABCF000138
Q9100 B1ABCF000138
D9808 MA3X152K0L
D9807 MA3X152K0L
FOR FACTORY USE
D6
R9859 EXB38V101JV
IC9007
TVRN814-1
PROM(FPGA)
NCS
DATA0
VCC
DCLK
ASDI
GND
①
②
③
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-50PV60E, TH-50PX60B
D-Board (1 of 8) Schematic Diagram

TH-50PV60E, TH-50PX60B
D-Board (1 of 8) Schematic Diagram

⚠ C6-BOARD TXNC61BETB (2/2)

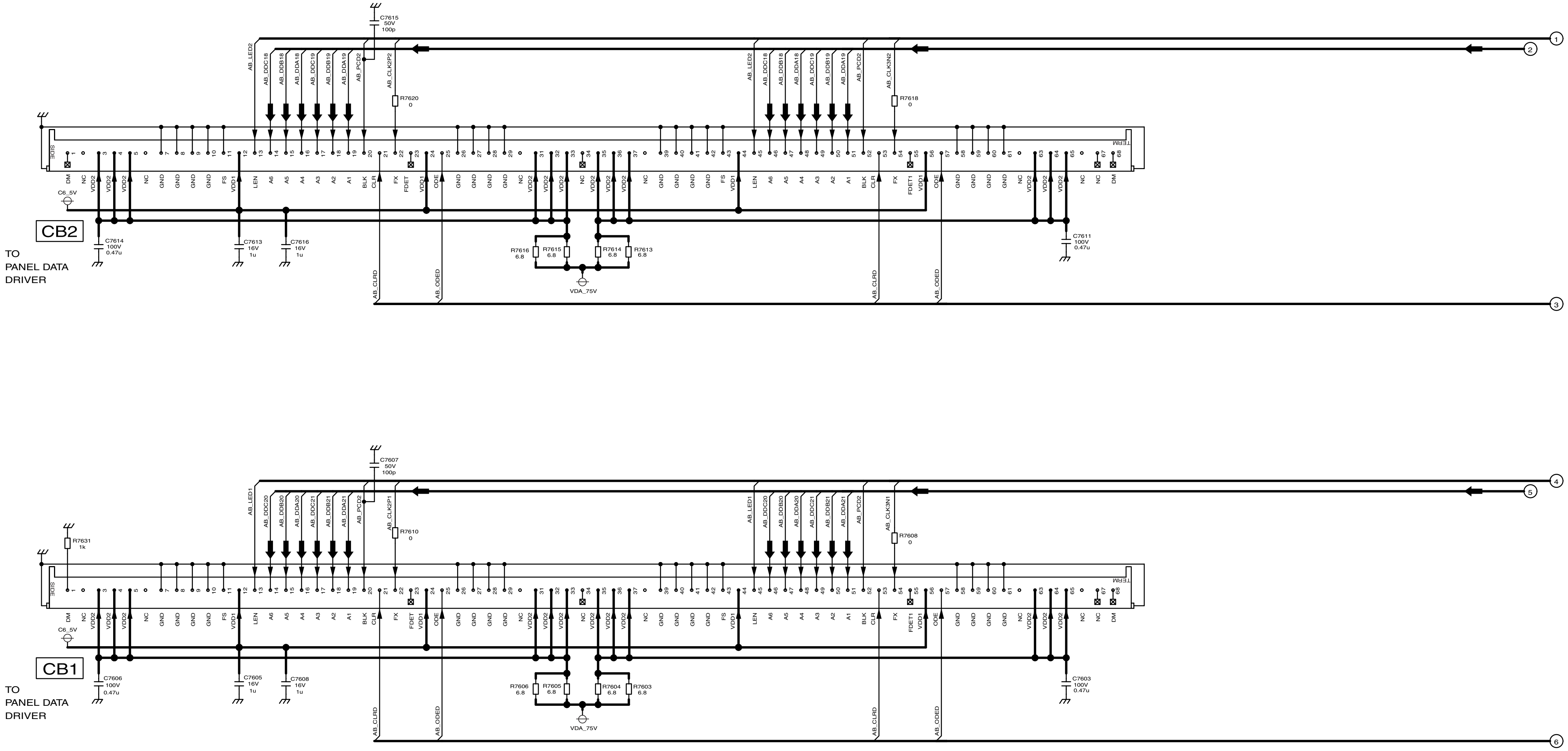

ZA7601 K4CD01000013
ZA7602 K4CD01000013
ZA7603 K4CD01000013
ZA7604 K4CD01000013
ZA7605 K4CD01000013
1
2
3
4
5
6
IC7601
C0JBAZ002692
BUFFER
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1 G2 Vcc
GND A8 A7 A6 A5 A4 A3 A2 A1 G1
AB_LED3
AB_LED2
AB_LED1
AB_CLK3N2
AB_CLK2P2
AB_CLK3N1
AB_CLK2P1
R7641 47
R7640 47
R7639 47
R7638 22
R7637 22
R7636 22
R7635 22
C7626 16V 0.1u
C6_5V
R7642 EXB38V681JV
AA_LED2
AA_CLK3N
AA_CLK2P
R7633 22k
R7632 100k
R7634 0
C7625 16V 1u
VDA_75V
TERM
SIDE
55 5V_DET
54 NC
53 GND
52 DOUTDC[20]
51 DOUTDB[20]
50 DOUTDA[20]
49 GND
48 DOUTDC[21]
47 DOUTDB[21]
46 DOUTDA[21]
45 GND
44 DOUTDC[18]
43 DOUTDB[18]
42 DOUTDA[18]
41 GND
40 DOUTDC[19]
39 DOUTDB[19]
38 DOUTDA[19]
37 GND
36 ODED
35 CLRD
34 PCD2
33 LED2
32 GND
31 CLK[3](-)N2
30 GND
29 CLK[2](+)P2
28 GND
27 DOUTDC[16]
26 DOUTDB[16]
25 DOUTDA[16]
24 GND
23 DOUTDC[17]
22 DOUTDB[17]
21 DOUTDA[17]
20 GND
19 GND
18 GND
17 NC
16 P5V
15 P5V
14 P5V
13 NC
12 GND
11 GND
10 GND
9 GND
8 NC
7 NC
6 NC
5 NC
4 VDA75
3 VDA75
2 VDA75
1 VDA75
AB_DDC20 AB_DDB20 AB_DDA20
AB_DDC21 AB_DDB21 AB_DDA21
AB_DDC18 AB_DDB18 AB_DDA18
AB_DDC19 AB_DDB19 AB_DDA19
AB_ODED
AB_CLRD
AB_PCD2
AB_DDC16 AB_DDB16 AB_DDA16
AB_DDC17 AB_DDB17 AB_DDA17
TO C5-BOARD (C50)
C60
C7623 50V 100p
AB_CLK2P2
R7630 0
AB_CLK3N2
R7628 0
DM NC VDD2 VDD2 VDD2 NC GND GND GND GND FS VDD1 LEN A6 A5 A4 A3 A2 A1 BLK CLR FX FDET VDD1 ODE GND GND GND GND NC VDD2 VDD2 VDD2 NC VDD2 VDD2 VDD2 NC GND GND GND GND FS VDD1 LEN A6 A5 A4 A3 A2 A1 BLK CLR FX FDET1 VDD1 ODE GND GND GND GND NC VDD2 VDD2 VDD2 NC NC DM
CB3
TO PANEL DATA DRIVER
C7622 100V 0.47u
C7621 16V 1u
C7624 16V 1u
C7619 100V 0.47u
R7626 6.8
R7625 6.8
R7624 6.8
R7623 6.8
AB_CLRD
AB_ODED

TH-50PV60E, TH-50PX60B
C6-Board (2 of 2) Schematic Diagram

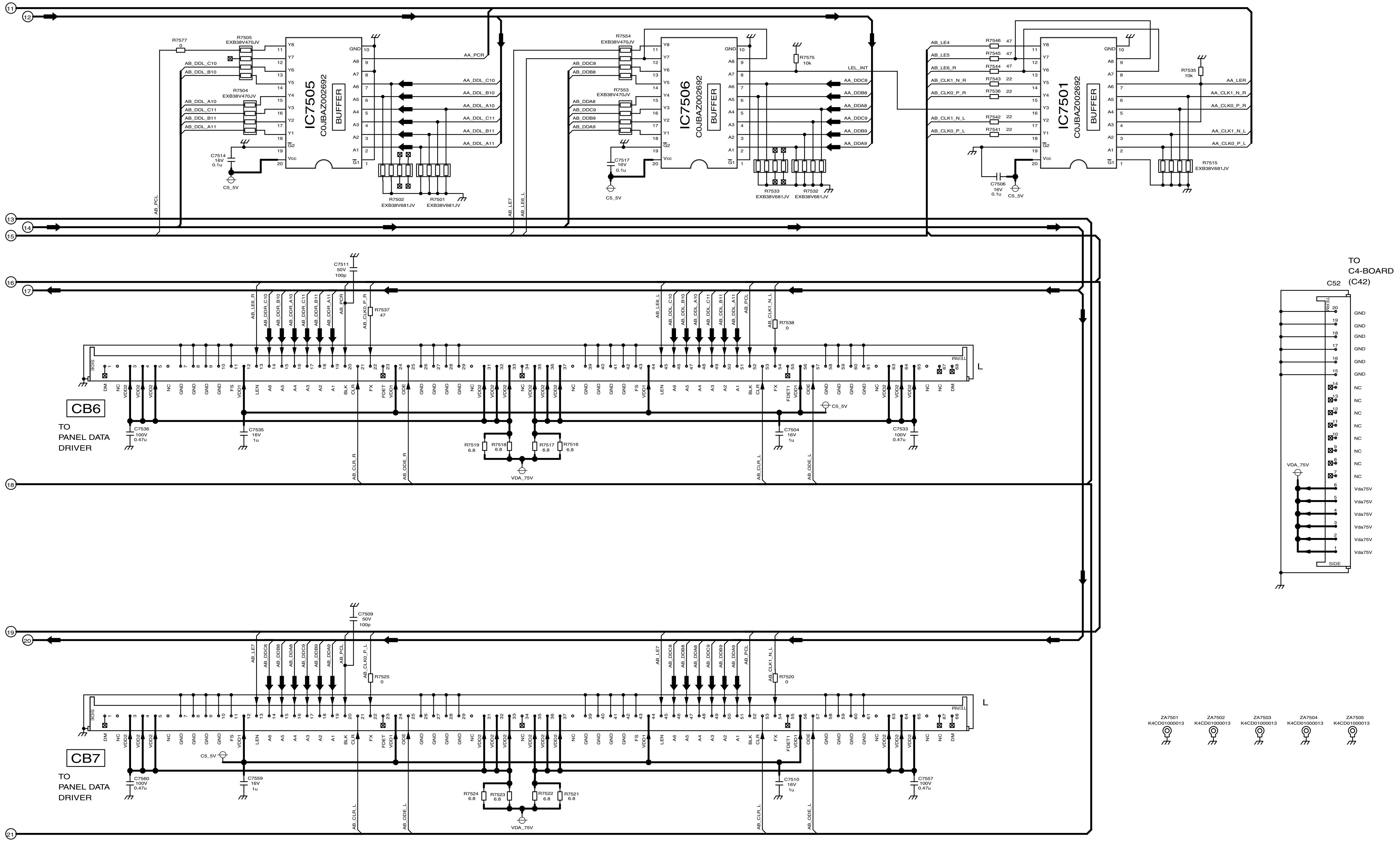
TH-50PV60E, TH-50PX60B
C6-Board (2 of 2) Schematic Diagram

8 9 10 11 12 13 14 15

⚠ C6-BOARD TXNC61BETB (1/2)

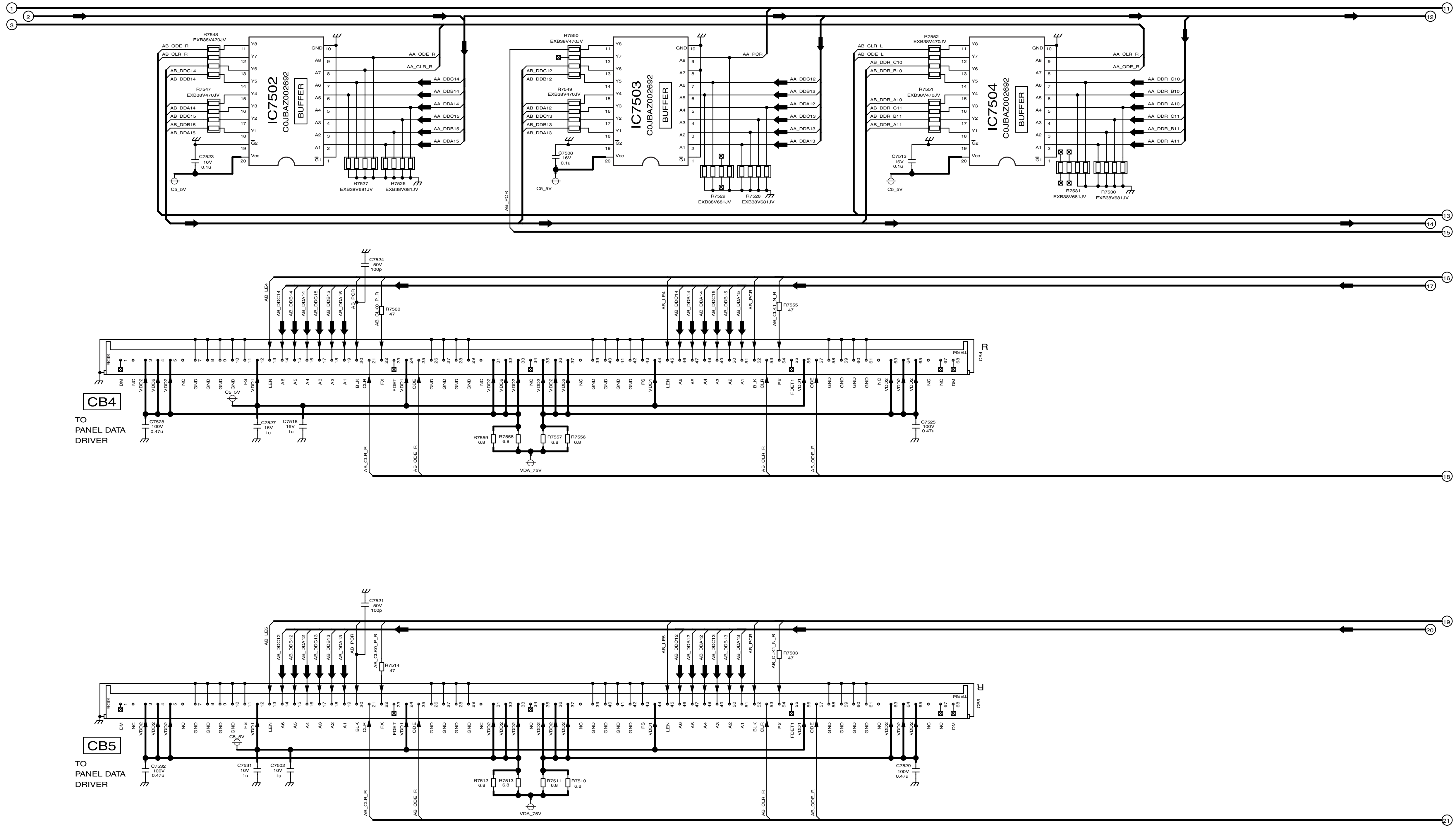

A
B
C
D
E
1
2
3
4
5
6
7
8
C7615
50V
100p
AB_LED2
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
AB_PCD2
AB_CLK2P2
R7620
0
AB_CLK3N2
R7618
0
①
②
③
④
⑤
⑥
SIDE
TERM
DM
NC
VDD2
GND
VDD1
FS
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
ODE
FDET1
C6_5V
CB2
TO
PANEL DATA
DRIVER
C7614
100V
0.47u
C7613
16V
1u
C7616
16V
1u
R7616
6.8
R7615
6.8
R7614
6.8
R7613
6.8
VDA_75V
C7611
100V
0.47u
AB_CLRD
AB_ODED
C7607
50V
100p
AB_LED1
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
AB_CLK2P1
R7610
0
AB_CLK3N1
R7608
0
R7631
1k
CB1
C7606
100V
0.47u
C7605
16V
1u
C7608
16V
1u
R7606
6.8
R7605
6.8
R7604
6.8
R7603
6.8
C7603
100V
0.47u

C5-BOARD TXNC51BETB (3/3)

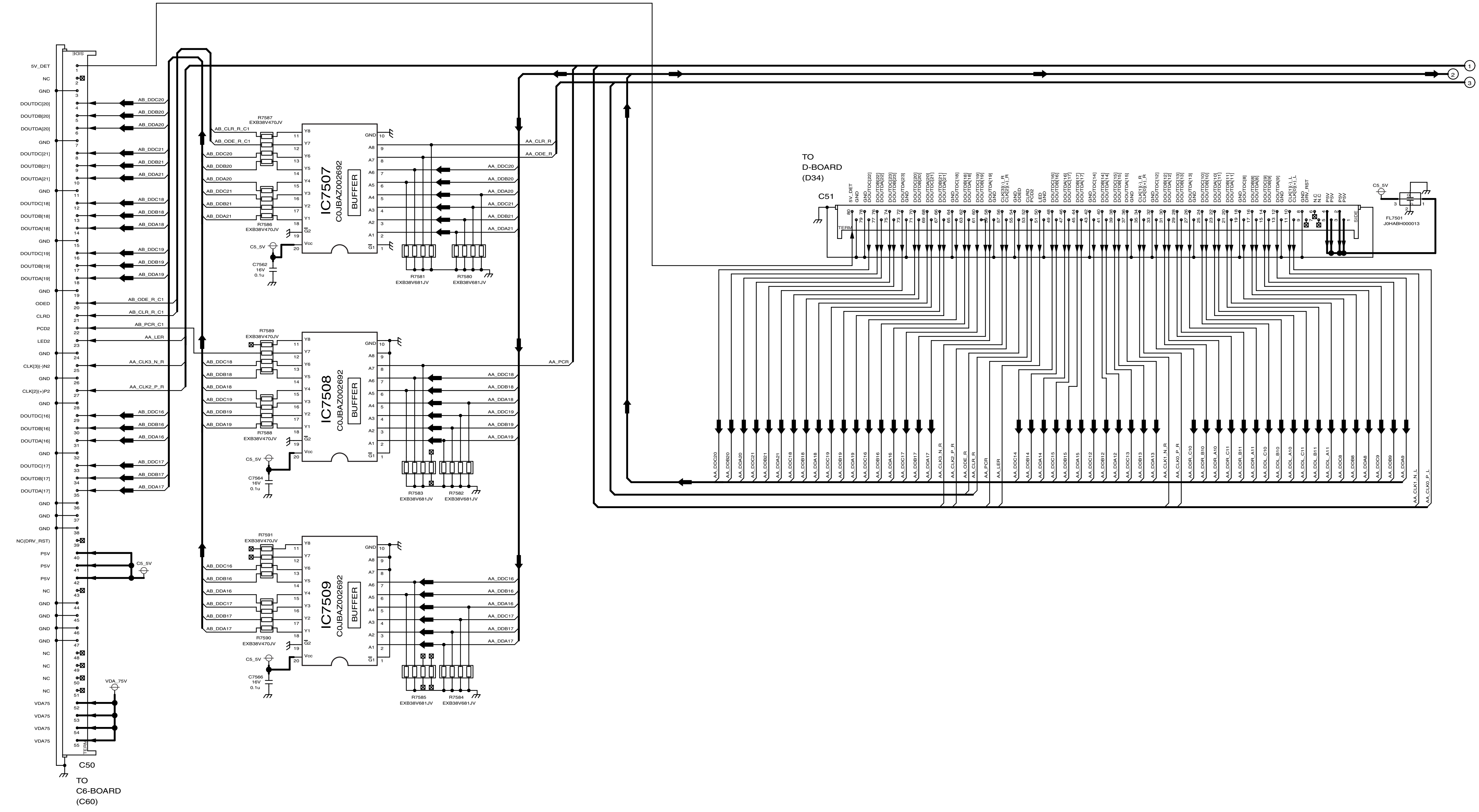


IC7505
C0JBAZ002692
BUFFER
IC7506
C0JBAZ002692
BUFFER
IC7501
C0JBAZ002692
BUFFER
R7577
R7505 EXB38V470JV
R7504 EXB38V470JV
R7554 EXB38V470JV
R7553 EXB38V470JV
R7502 EXB38V681JV
R7501 EXB38V681JV
R7533 EXB38V681JV
R7532 EXB38V681JV
R7515 EXB38V681JV
R7575 10k
R7535 10k
R7546 47
R7545 47
R7544 47
R7543 22
R7536 22
R7542 22
R7541 22
C7514 16V 0.1u
C7517 16V 0.1u
C7506 16V 0.1u
C5_5V
AA_PCR
AA_DDL_C10
AA_DDL_B10
AA_DDL_A10
AA_DDL_C11
AA_DDL_B11
AA_DDL_A11
AB_DDL_C10
AB_DDL_B10
AB_DDL_A10
AB_DDL_C11
AB_DDL_B11
AB_DDL_A11
AB_DDC8
AB_DDB8
AB_DDA8
AB_DDC9
AB_DDB9
AB_DDA9
AA_DDC8
AA_DDB8
AA_DDA8
AA_DDC9
AA_DDB9
AA_DDA9
LEL_INT
AB_LE4
AB_LE5
AB_LE6_R
AB_CLK1_N_R
AB_CLK0_P_R
AB_CLK1_N_L
AB_CLK0_P_L
AA_LER
AA_CLK1_N_R
AA_CLK0_P_R
AA_CLK1_N_L
AA_CLK0_P_L
AB_PCL
AB_LE7
AB_LE6_L
C7511 50V 100p
C7509 50V 100p
R7537 47
R7538 0
R7525 0
R7520 0
CB6
TO PANEL DATA DRIVER
CB7
TO PANEL DATA DRIVER
C7536 100V 0.47u
C7535 16V 1u
C7504 16V 1u
C7533 100V 0.47u
C7560 100V 0.47u
C7559 16V 1u
C7510 16V 1u
C7557 100V 0.47u
R7519 6.8
R7518 6.8
R7517 6.8
R7516 6.8
R7524 6.8
R7523 6.8
R7522 6.8
R7521 6.8
VDA_75V
AB_CLR_R
AB_ODE_R
AB_CLR_L
AB_ODE_L
TO C4-BOARD (C42)
C52
GND
NC
Vda75V
SIDE
TERM
ZA7501 K4CD01000013
ZA7502 K4CD01000013
ZA7503 K4CD01000013
ZA7504 K4CD01000013
ZA7505 K4CD01000013
11
12
13
14
15
16
17
18
19
20
21

⚠ C5-BOARD TXNC51BETB (2/3)

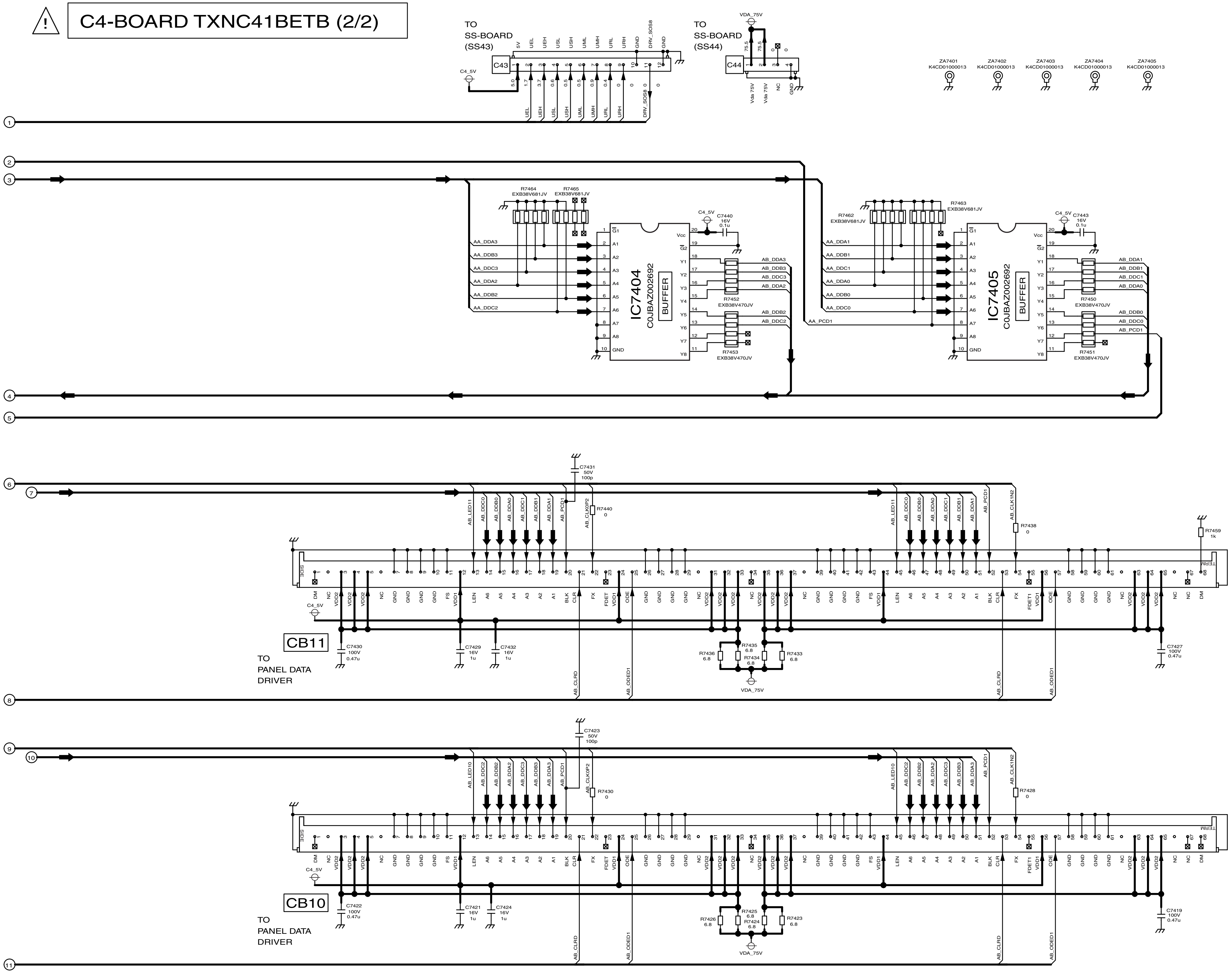

IC7502
C0JBAZ002692
BUFFER
IC7503
C0JBAZ002692
BUFFER
IC7504
C0JBAZ002692
BUFFER
R7548 EXB38V470JV
R7547 EXB38V470JV
R7550 EXB38V470JV
R7549 EXB38V470JV
R7552 EXB38V470JV
R7551 EXB38V470JV
R7527 EXB38V681JV
R7526 EXB38V681JV
R7529 EXB38V681JV
R7528 EXB38V681JV
R7531 EXB38V681JV
R7530 EXB38V681JV
C7523 16V 0.1u
C7508 16V 0.1u
C7513 16V 0.1u
C5_5V
AB_ODE_R
AB_CLR_R
AB_DDC14
AB_DDB14
AB_DDA14
AB_DDC15
AB_DDB15
AB_DDA15
AA_ODE_R
AA_CLR_R
AA_DDC14
AA_DDB14
AA_DDA14
AA_DDC15
AA_DDB15
AA_DDA15
AB_DDC12
AB_DDB12
AB_DDA12
AB_DDC13
AB_DDB13
AB_DDA13
AA_PCR
AA_DDC12
AA_DDB12
AA_DDA12
AA_DDC13
AA_DDB13
AA_DDA13
AB_PCR
AB_CLR_L
AB_ODE_L
AB_DDR_C10
AB_DDR_B10
AB_DDR_A10
AB_DDR_C11
AB_DDR_B11
AB_DDR_A11
AA_CLR_R
AA_ODE_R
AA_DDR_C10
AA_DDR_B10
AA_DDR_A10
AA_DDR_C11
AA_DDR_B11
AA_DDR_A11
C7524 50V 100p
R7560 47
R7555 47
AB_LE4
AB_CLK0_P_R
AB_CLK1_N_R
CB4
TO
PANEL DATA
DRIVER
C7528 100V 0.47u
C7527 16V 1u
C7518 16V 1u
C7525 100V 0.47u
R7559 6.8
R7558 6.8
R7557 6.8
R7556 6.8
VDA_75V
AB_CLR_R
AB_ODE_R
C7521 50V 100p
R7514 47
R7503 47
AB_LE5
CB5
TO
PANEL DATA
DRIVER
C7532 100V 0.47u
C7531 16V 1u
C7502 16V 1u
C7529 100V 0.47u
R7512 6.8
R7513 6.8
R7511 6.8
R7510 6.8
VDA_75V
TERM
R
1
2
3
11
12
13
14
15
16
17
18
19
20
21

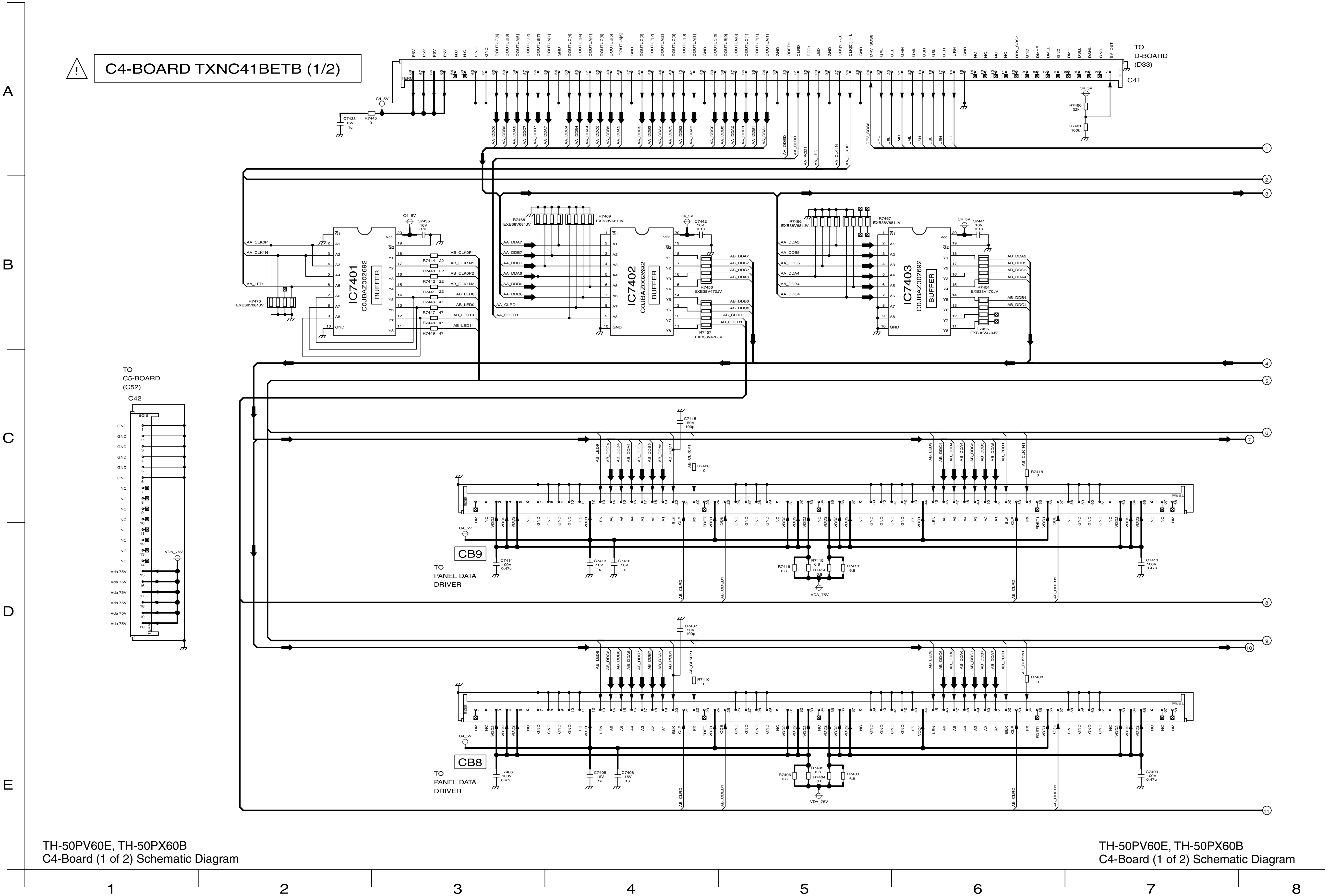
⚠ C5-BOARD TXNC51BETB (1/3)



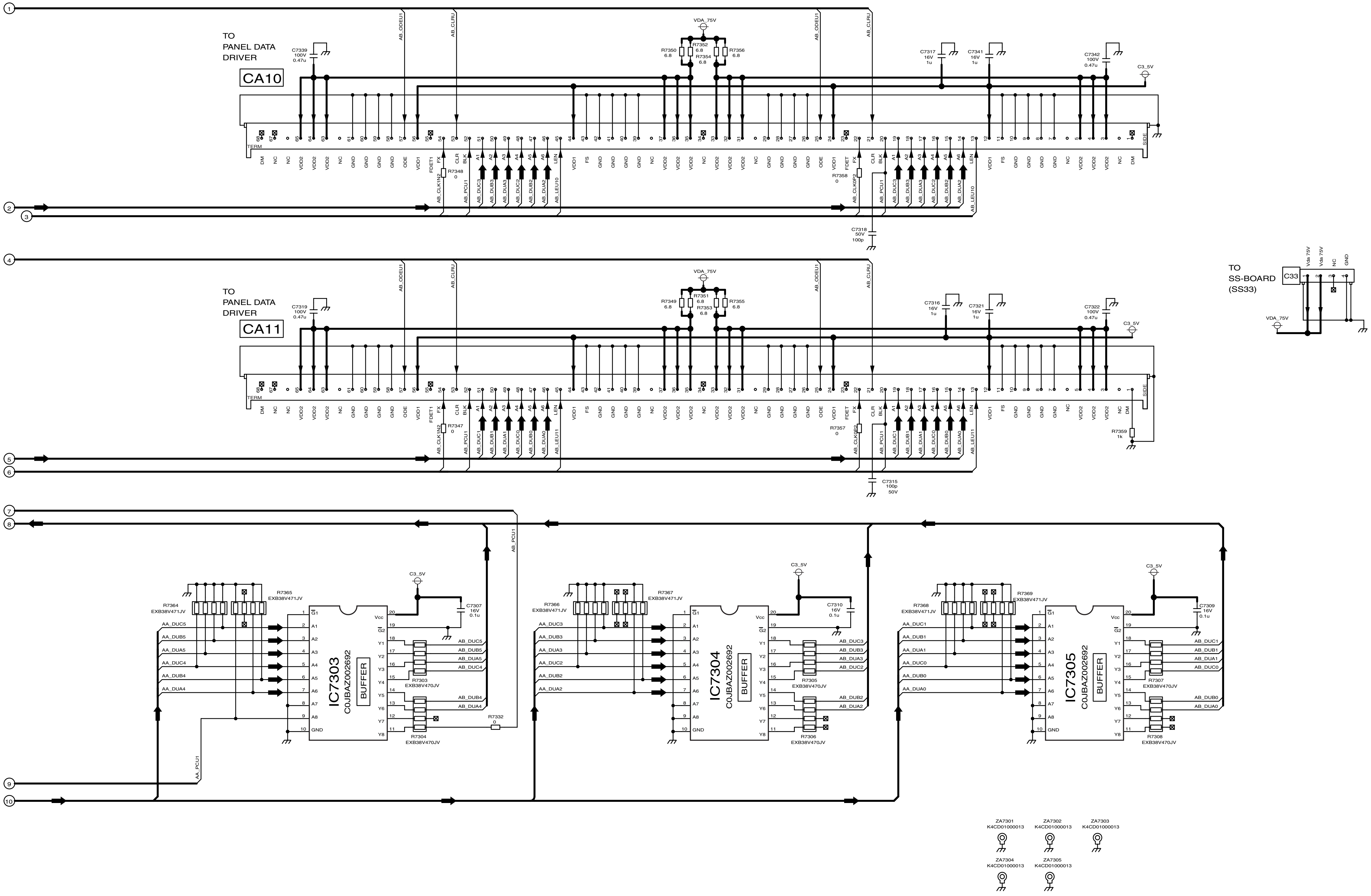
5V_DET
NC
GND
DOUTDC[20]
DOUTDB[20]
DOUTDA[20]
GND
DOUTDC[21]
DOUTDB[21]
DOUTDA[21]
GND
DOUTDC[18]
DOUTDB[18]
DOUTDA[18]
GND
DOUTDC[19]
DOUTDB[19]
DOUTDA[19]
GND
ODED
CLRD
PCD2
LED2
GND
CLK[3](-)N2
GND
CLK[2](+)P2
GND
DOUTDC[16]
DOUTDB[16]
DOUTDA[16]
GND
DOUTDC[17]
DOUTDB[17]
DOUTDA[17]
GND
GND
GND
NC(DRV_RST)
P5V
P5V
P5V
NC
GND
GND
GND
GND
NC
NC
NC
NC
VDA75
VDA75
VDA75
VDA75
C50
TO
C6-BOARD
(C60)
VDA_75V
C5_5V
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
AB_ODE_R_C1
AB_CLR_R_C1
AB_PCR_C1
AA_LER
AA_CLK3_N_R
AA_CLK2_P_R
AB_DDC16
AB_DDB16
AB_DDA16
AB_DDC17
AB_DDB17
AB_DDA17
R7587
EXB38V470JV
R7586
EXB38V470JV
IC7507
C0JBAZ002692
BUFFER
C7562
16V
0.1u
R7581
EXB38V681JV
R7580
EXB38V681JV
AA_CLR_R
AA_ODE_R
AA_DDC20
AA_DDB20
AA_DDA20
AA_DDC21
AA_DDB21
AA_DDA21
R7589
EXB38V470JV
R7588
EXB38V470JV
IC7508
C0JBAZ002692
BUFFER
C7564
16V
0.1u
R7583
EXB38V681JV
R7582
EXB38V681JV
AA_PCR
AA_DDC18
AA_DDB18
AA_DDA18
AA_DDC19
AA_DDB19
AA_DDA19
R7591
EXB38V470JV
R7590
EXB38V470JV
IC7509
C0JBAZ002692
BUFFER
C7566
16V
0.1u
R7585
EXB38V681JV
R7584
EXB38V681JV
AA_DDC16
AA_DDB16
AA_DDA16
AA_DDC17
AA_DDB17
AA_DDA17
TO
D-BOARD
(D34)
C51
TERM
SIDE
FL7501
J0HABH000013
AA_CLK1_N_L
AA_CLK0_P_L
①
②
③
A
B
C
D
E
1
2
3
4
5
6
7
8

C4-BOARD TXNC41BETB (2/2)

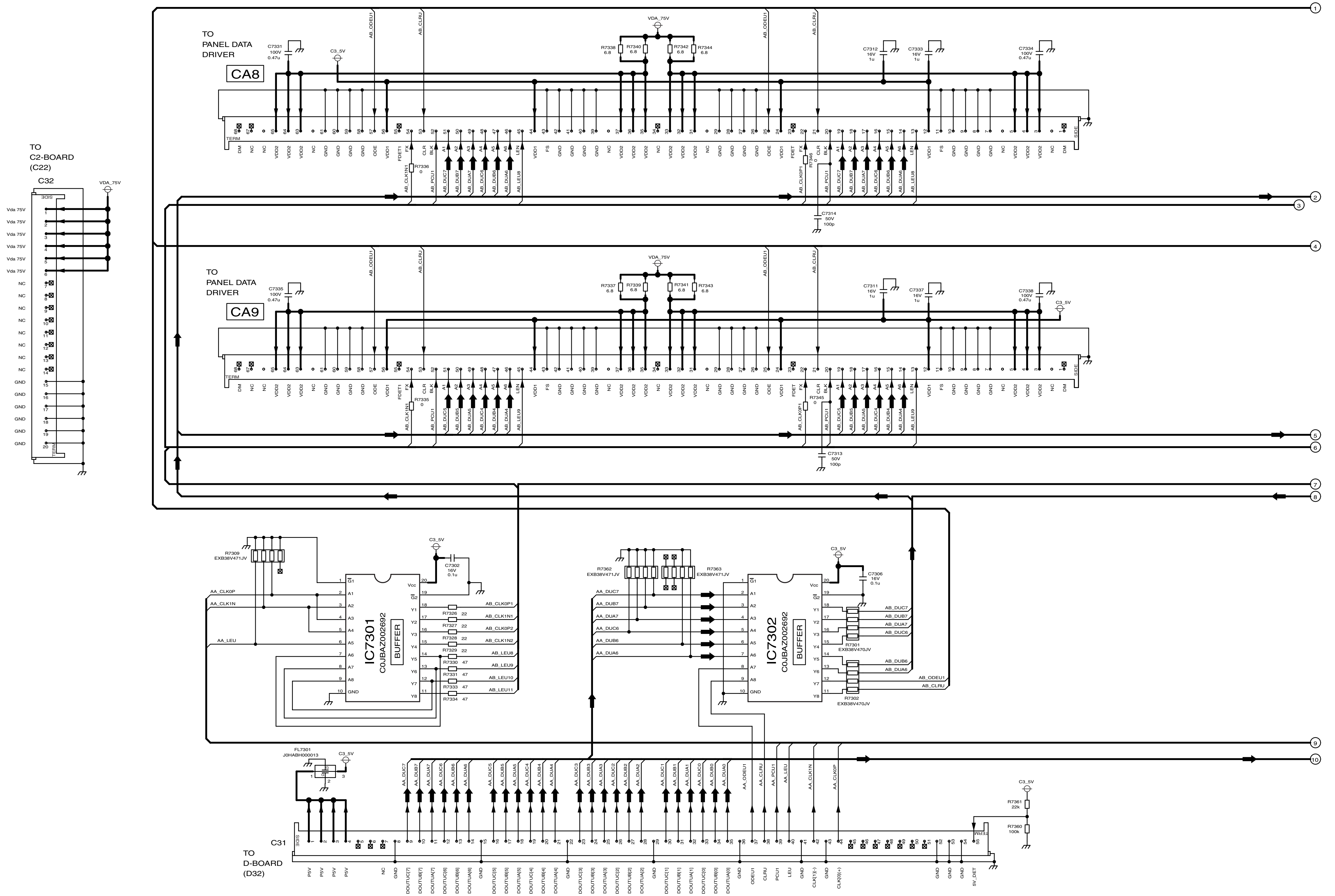

TO SS-BOARD (SS43)
C43
5V
UEL
UEH
USL
USH
UML
UMH
URL
URH
GND
DRV_SOS8
C4_5V
TO SS-BOARD (SS44)
C44
VDA_75V
Vda 75V
NC
GND
ZA7401 K4CD01000013
ZA7402 K4CD01000013
ZA7403 K4CD01000013
ZA7404 K4CD01000013
ZA7405 K4CD01000013
R7464 EXB38V681JV
R7465 EXB38V681JV
C7440 16V 0.1u
IC7404
C0JBAZ002692
BUFFER
AA_DDA3
AA_DDB3
AA_DDC3
AA_DDA2
AA_DDB2
AA_DDC2
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
R7452 EXB38V470JV
R7453 EXB38V470JV
R7462 EXB38V681JV
R7463 EXB38V681JV
C7443 16V 0.1u
IC7405
C0JBAZ002692
BUFFER
AA_DDA1
AA_DDB1
AA_DDC1
AA_DDA0
AA_DDB0
AA_DDC0
AA_PCD1
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
AB_PCD1
R7450 EXB38V470JV
R7451 EXB38V470JV
C7431 50V 100p
AB_LED11
AB_CLK0P2
R7440 0
AB_CLK1N2
R7438 0
R7459 1k
CB11
TO PANEL DATA DRIVER
C7430 100V 0.47u
C7429 16V 1u
C7432 16V 1u
R7436 6.8
R7435 6.8
R7434 6.8
R7433 6.8
C7427 100V 0.47u
AB_CLRD
AB_ODED1
C7423 50V 100p
AB_LED10
AB_CLK0P2
R7430 0
AB_CLK1N2
R7428 0
CB10
TO PANEL DATA DRIVER
C7422 100V 0.47u
C7421 16V 1u
C7424 16V 1u
R7426 6.8
R7425 6.8
R7424 6.8
R7423 6.8
C7419 100V 0.47u
DM
NC
VDD2
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
OE
FDET1
TERM


C4-BOARD TXNC41BETB (1/2)
TO
D-BOARD
(D33)
C41
TO
C5-BOARD
(C52)
C42
IC7401
IC7402
IC7403
C0JBAZ002692
BUFFER
R7470
EXB38V681JV
R7468
EXB38V681JV
R7469
EXB38V681JV
R7466
EXB38V681JV
R7467
EXB38V681JV
R7456
EXB38V470JV
R7457
EXB38V470JV
R7454
EXB38V470JV
R7455
EXB38V470JV
C7433
R7445
C7435
C7442
C7441
R7460
22k
R7461
100k
C4_5V
VDA_75V
CB9
CB8
TO
PANEL DATA
DRIVER
C7415
50V
100p
C7407
50V
100p
C7414
C7413
C7416
C7411
C7406
C7405
C7408
C7403
R7420
R7418
R7410
R7408
R7416
R7415
R7414
R7413
R7406
R7405
R7404
R7403
A
B
C
D
E
1
2
3
4
5
6
7
8

C3-BOARD TXNC31BETB (2/2)


TO
PANEL DATA
DRIVER
CA10
CA11
TO
SS-BOARD
(SS33)
C33
VDA_75V
C3_5V
AB_ODEU1
AB_CLRU
C7339 100V 0.47u
C7342 100V 0.47u
C7317 16V 1u
C7341 16V 1u
C7319 100V 0.47u
C7322 100V 0.47u
C7316 16V 1u
C7321 16V 1u
R7350 6.8
R7352 6.8
R7354 6.8
R7356 6.8
R7349 6.8
R7351 6.8
R7353 6.8
R7355 6.8
R7348 0
R7358 0
R7347 0
R7357 0
R7359 1k
C7318 50V 100p
C7315 100p 50V
TERM
SIDE
IC7303
IC7304
IC7305
C0JBAZ002692
BUFFER
R7364 EXB38V471JV
R7365 EXB38V471JV
R7366 EXB38V471JV
R7367 EXB38V471JV
R7368 EXB38V471JV
R7369 EXB38V471JV
R7303 EXB38V470JV
R7304 EXB38V470JV
R7305 EXB38V470JV
R7306 EXB38V470JV
R7307 EXB38V470JV
R7308 EXB38V470JV
C7307 16V 0.1u
C7310 16V 0.1u
C7309 16V 0.1u
R7332 0
AA_PCU1
AB_PCU1
ZA7301 K4CD01000013
ZA7302 K4CD01000013
ZA7303 K4CD01000013
ZA7304 K4CD01000013
ZA7305 K4CD01000013

C3-BOARD TXNC31BETB (1/2)

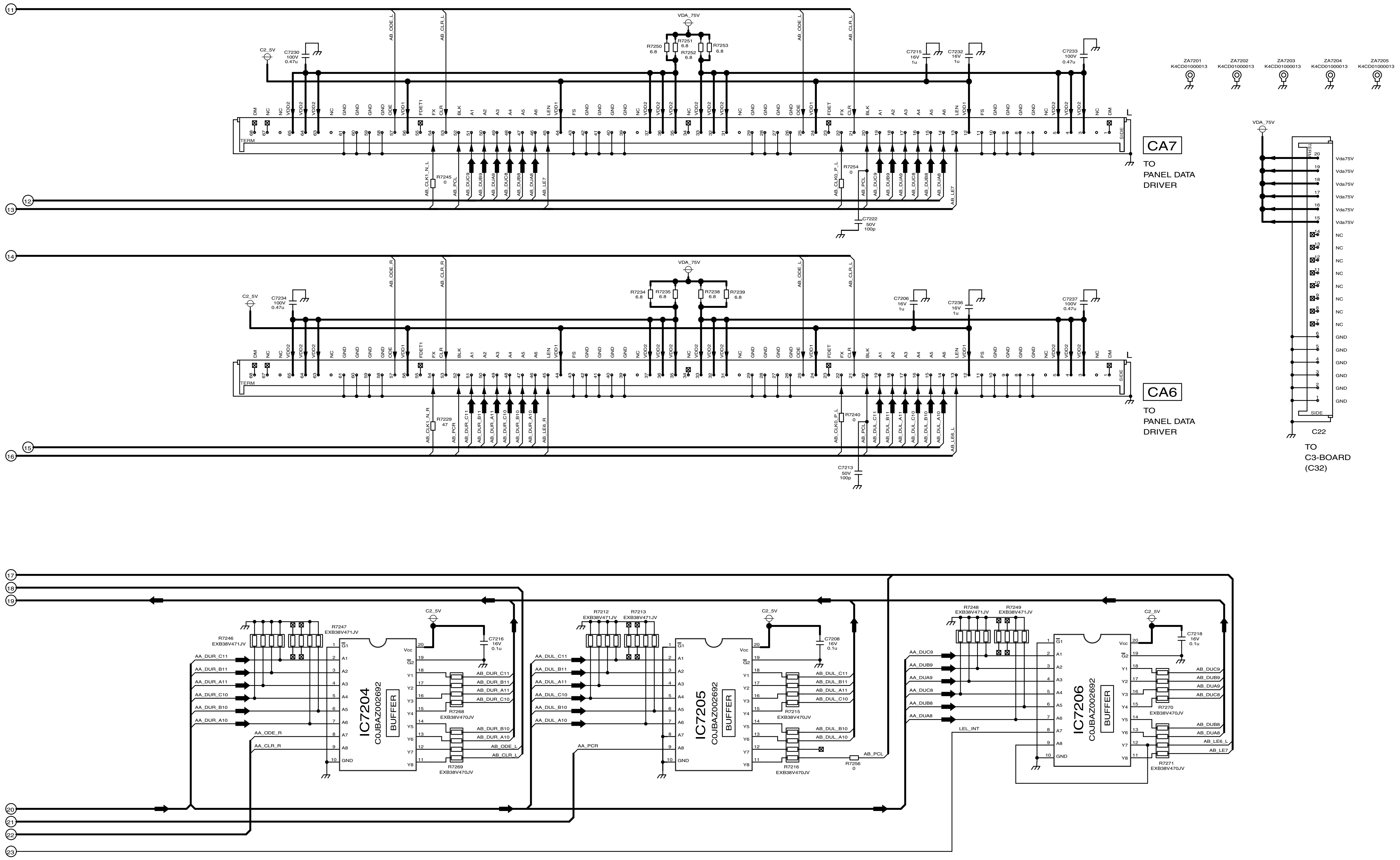


TO PANEL DATA DRIVER
CA8
TO PANEL DATA DRIVER
CA9
TO C2-BOARD (C22)
C32
VDA_75V
C3_5V
AB_ODEU1
AB_CLRU
R7338 6.8
R7340 6.8
R7342 6.8
R7344 6.8
R7337 6.8
R7339 6.8
R7341 6.8
R7343 6.8
C7331 100V 0.47u
C7312 16V 1u
C7333 16V 1u
C7334 100V 0.47u
C7335 100V 0.47u
C7311 16V 1u
C7337 16V 1u
C7338 100V 0.47u
C7314 50V 100p
C7313 50V 100p
R7336 0
R7346 0
R7335 0
R7345 0
IC7301
C0JBAZ002692
BUFFER
IC7302
C0JBAZ002692
BUFFER
R7309 EXB38V471JV
R7362 EXB38V471JV
R7363 EXB38V471JV
R7301 EXB38V470JV
R7302 EXB38V470JV
C7302 16V 0.1u
C7306 16V 0.1u
R7326 22
R7327 22
R7328 22
R7329 22
R7330 47
R7331 47
R7333 47
R7334 47
AA_CLK0P
AA_CLK1N
AA_LEU
AA_DUC7
AA_DUB7
AA_DUA7
AA_DUC6
AA_DUB6
AA_DUA6
AB_CLK0P1
AB_CLK1N1
AB_CLK0P2
AB_CLK1N2
AB_LEU8
AB_LEU9
AB_LEU10
AB_LEU11
AB_DUC7
AB_DUB7
AB_DUA7
AB_DUC6
AB_DUB6
AB_DUA6
AB_ODEU1
AB_CLRU
FL7301 J0HABH000013
R7361 22k
R7360 100k
C31
TO D-BOARD (D32)
P5V
DOUTUC(7)
DOUTUB(7)
DOUTUA(7)
ODEU1
CLRU
PCU1
LEU
CLK(1)(-)
CLK(0)(+)
5V_DET
A
B
C
D
E
1
2
3
4
5
6
7
8

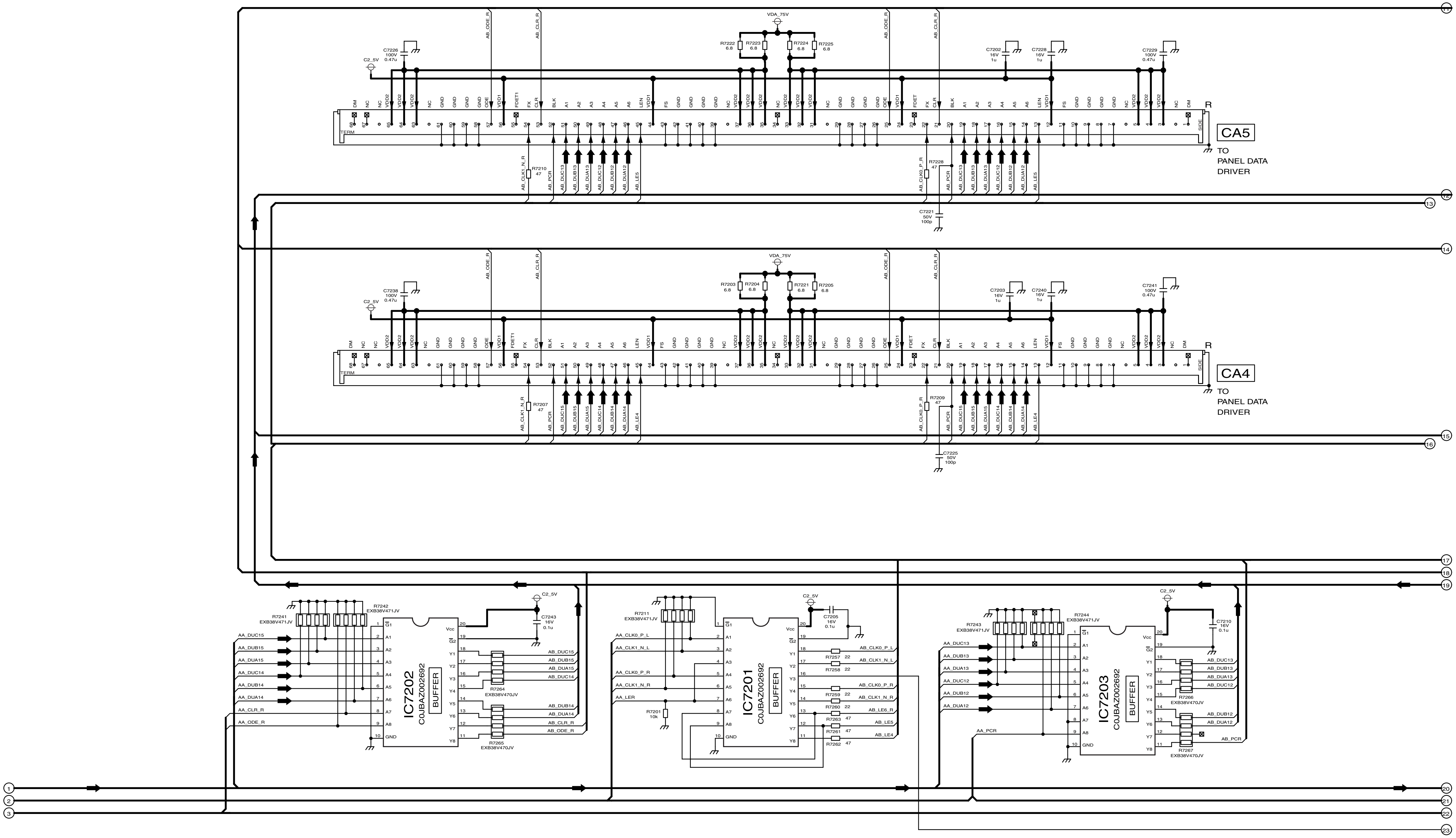
TH-50PV60E, TH-50PX60B
C3-Board (1 of 2) Schematic Diagram

TH-50PV60E, TH-50PX60B
C3-Board (1 of 2) Schematic Diagram

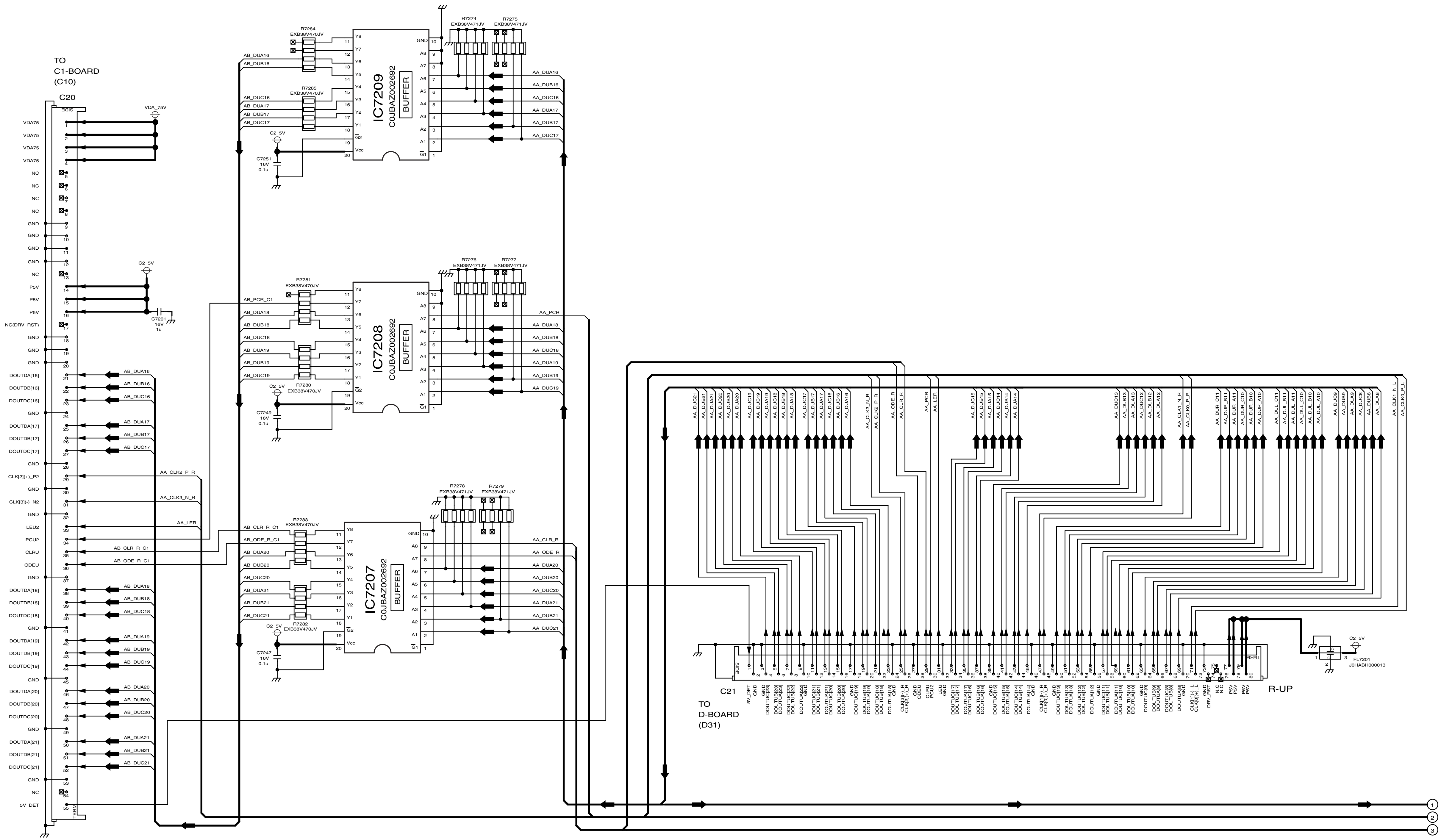
C2-BOARD TXNC21BETB (3/3)


CA7
TO
PANEL DATA
DRIVER
CA6
TO
PANEL DATA
DRIVER
C22
TO
C3-BOARD
(C32)
VDA_75V
C2_5V
IC7204
C0JBAZ002692
BUFFER
IC7205
C0JBAZ002692
BUFFER
IC7206
C0JBAZ002692
BUFFER
ZA7201
ZA7202
ZA7203
ZA7204
ZA7205
K4CD01000013

⚠ C2-BOARD TXNC21BETB (2/3)


CA5
TO
PANEL DATA
DRIVER
CA4
TO
PANEL DATA
DRIVER
VDA_75V
C2_5V
C7226
100V
0.47u
C7202
16V
1u
C7228
16V
1u
C7229
100V
0.47u
R7222
6.8
R7223
6.8
R7224
6.8
R7225
6.8
R7210
47
R7228
47
C7221
50V
100p
C7238
100V
0.47u
C7203
16V
1u
C7240
16V
1u
C7241
100V
0.47u
R7203
6.8
R7204
6.8
R7221
6.8
R7205
6.8
R7207
47
R7209
47
C7225
50V
100p
TERM
SIDE
R
AB_ODE_R
AB_CLR_R
AB_CLK1_N_R
AB_CLK0_P_R
AB_PCR
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
AB_LE5
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
AB_LE4
IC7202
C0JBAZ002692
BUFFER
R7241
EXB38V471JV
R7242
EXB38V471JV
C7243
16V
0.1u
R7264
EXB38V470JV
R7265
EXB38V470JV
AA_DUC15
AA_DUB15
AA_DUA15
AA_DUC14
AA_DUB14
AA_DUA14
AA_CLR_R
AA_ODE_R
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
AB_CLR_R
AB_ODE_R
IC7201
C0JBAZ002692
BUFFER
R7211
EXB38V471JV
C7205
16V
0.1u
R7201
10k
AA_CLK0_P_L
AA_CLK1_N_L
AA_CLK0_P_R
AA_CLK1_N_R
AA_LER
R7257 22
R7258 22
R7259 22
R7260 22
R7263 47
R7261 47
R7262 47
AB_CLK0_P_L
AB_CLK1_N_L
AB_CLK0_P_R
AB_CLK1_N_R
AB_LE6_R
AB_LE5
AB_LE4
IC7203
C0JBAZ002692
BUFFER
R7243
EXB38V471JV
R7244
EXB38V471JV
C7210
16V
0.1u
R7266
EXB38V470JV
R7267
EXB38V470JV
AA_DUC13
AA_DUB13
AA_DUA13
AA_DUC12
AA_DUB12
AA_DUA12
AA_PCR
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
AB_PCR
Vcc
GND
①
②
③
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓

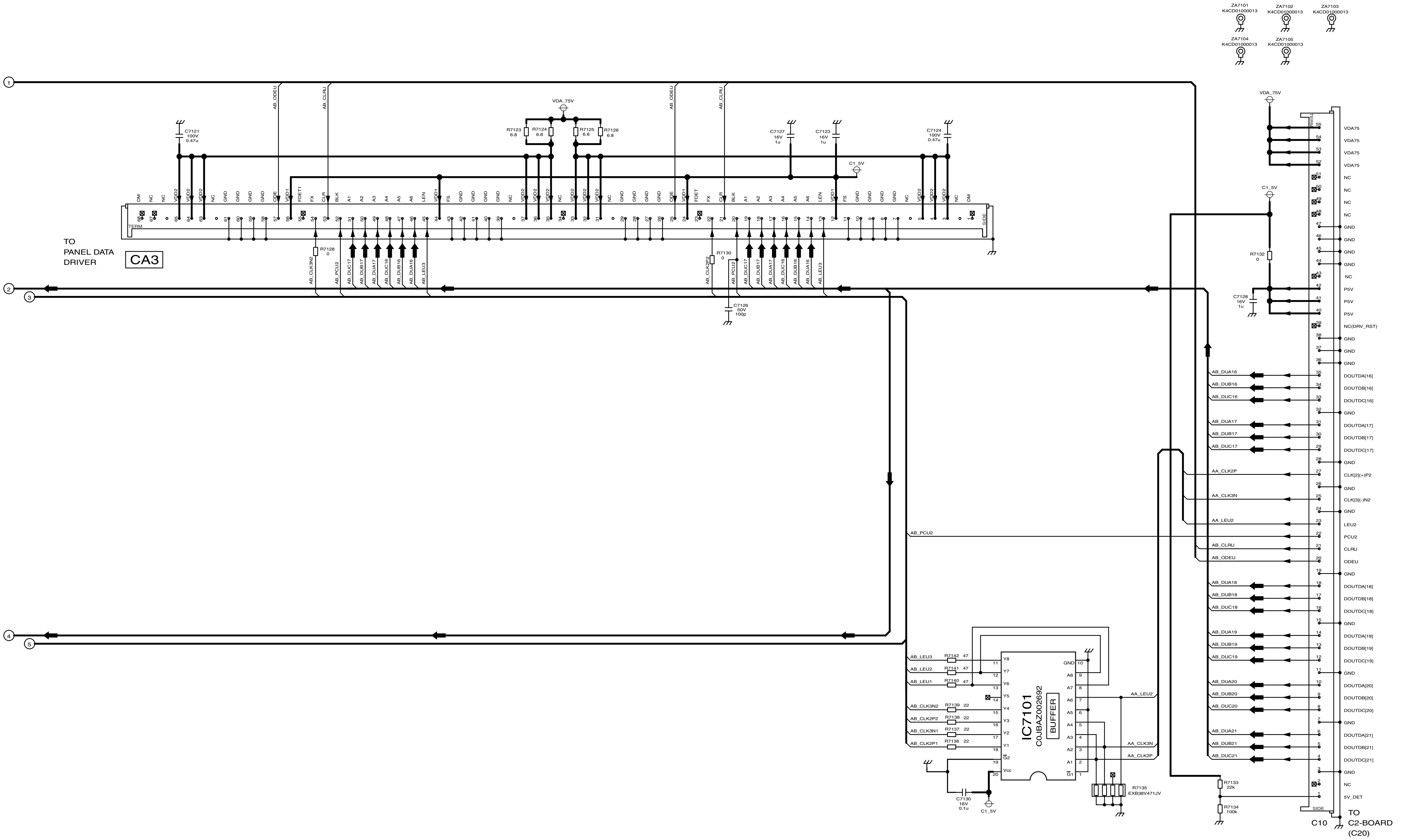
⚠ C2-BOARD TXNC21BETB (1/3)


TO
C1-BOARD
(C10)
C20
VDA_75V
C2_5V
C7201
16V
1u
IC7209
C0JBAZ002692
BUFFER
R7284
EXB38V470JV
R7285
EXB38V470JV
R7274
EXB38V471JV
R7275
EXB38V471JV
C7251
16V
0.1u
IC7208
C0JBAZ002692
BUFFER
R7281
EXB38V470JV
R7280
EXB38V470JV
R7276
EXB38V471JV
R7277
EXB38V471JV
C7249
16V
0.1u
IC7207
C0JBAZ002692
BUFFER
R7283
EXB38V470JV
R7282
EXB38V470JV
R7278
EXB38V471JV
R7279
EXB38V471JV
C7247
16V
0.1u
C21
TO
D-BOARD
(D31)
R-UP
FL7201
J0HABH000013
1
2
3

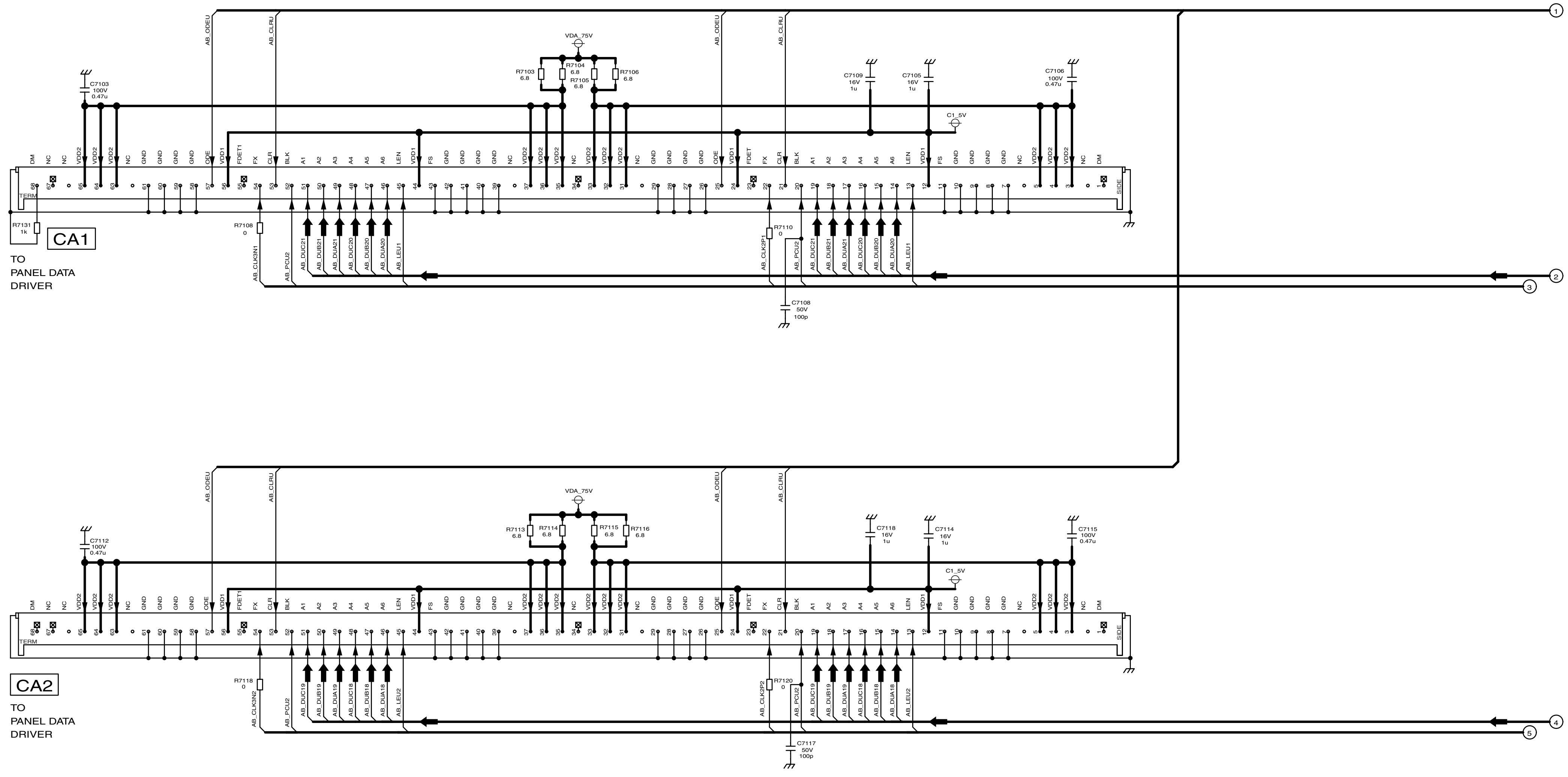
TH-50PV60E, TH-50PX60B
C2-Board (1 of 3) Schematic Diagram

TH-50PV60E, TH-50PX60B
C2-Board (1 of 3) Schematic Diagram

C1-BOARD TXNC11BETB (2/2)

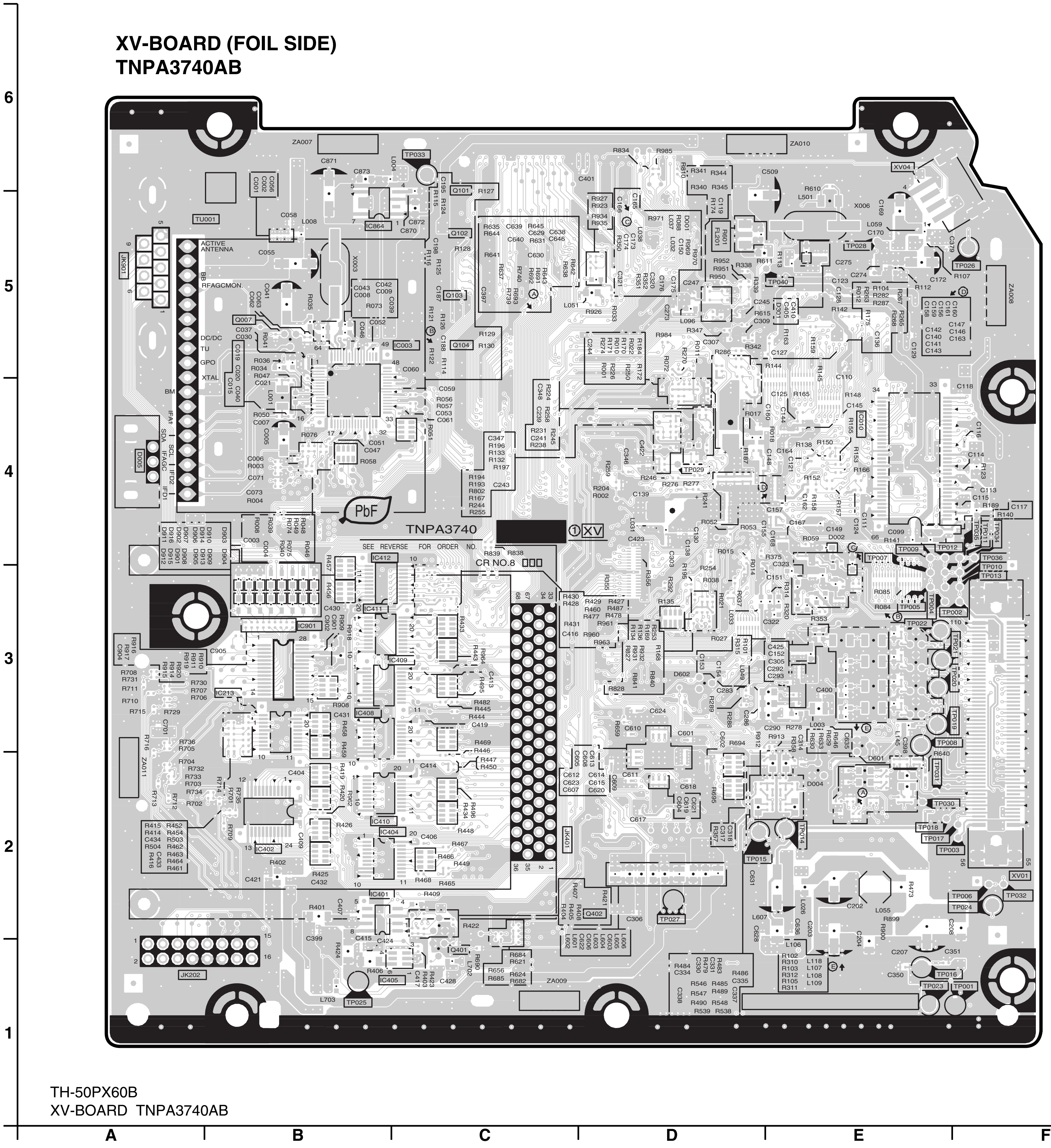

ZA7101 K4CD01000013
ZA7102 K4CD01000013
ZA7103 K4CD01000013
ZA7104 K4CD01000013
ZA7105 K4CD01000013
VDA_75V
C7121 100V 0.47u
R7123 6.8
R7124 6.8
R7125 6.8
R7126 6.8
C7127 16V 1u
C7123 16V 1u
C7124 100V 0.47u
C1_5V
AB_ODEU
AB_CLRU
TERM
SIDE
TO PANEL DATA DRIVER
CA3
R7128 0
R7130 0
C7126 50V 100p
AB_CLK3N2
AB_PCU2
AB_DUC17
AB_DUB17
AB_DUA17
AB_DUC16
AB_DUB16
AB_DUA16
AB_LEU3
AB_CLK2P2
R7132 0
C7128 16V 1u
VDA75
NC
GND
P5V
NC(DRV_RST)
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
CLK[2](+)P2
CLK[3](-)N2
LEU2
PCU2
CLRU
ODEU
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
5V_DET
AA_CLK2P
AA_CLK3N
AA_LEU2
AB_PCU2
AB_CLRU
AB_ODEU
AB_DUA18
AB_DUB18
AB_DUC18
AB_DUA19
AB_DUB19
AB_DUC19
AB_DUA20
AB_DUB20
AB_DUC20
AB_DUA21
AB_DUB21
AB_DUC21
AB_LEU3
AB_LEU2
AB_LEU1
AB_CLK3N2
AB_CLK2P2
AB_CLK3N1
AB_CLK2P1
R7142 47
R7141 47
R7140 47
R7139 22
R7138 22
R7137 22
R7136 22
IC7101
C0JBAZ002692
BUFFER
C7130 16V 0.1u
R7135 EXB38V471JV
R7133 22k
R7134 100k
C10
TO C2-BOARD (C20)
①
②
③
④
⑤

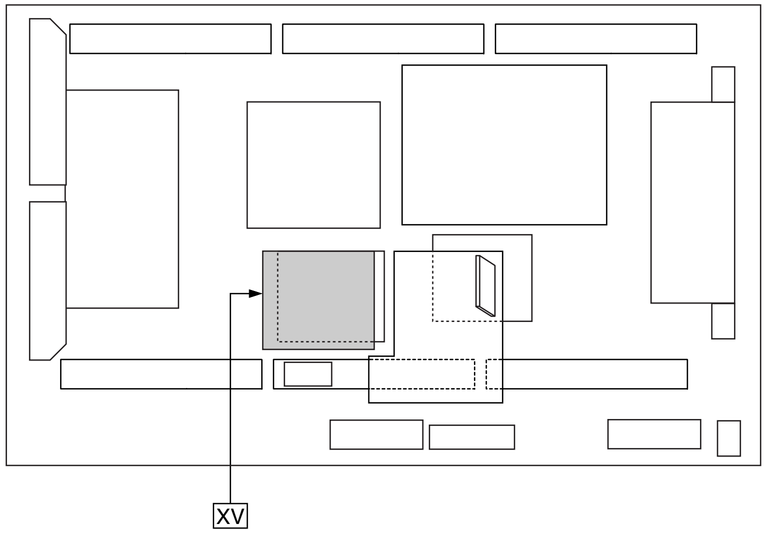
⚠ C1-BOARD TXNC11BETB (1/2)


VDA_75V
R7103 6.8
R7104 6.8
R7105 6.8
R7106 6.8
C7103 100V 0.47u
C7109 16V 1u
C7105 16V 1u
C7106 100V 0.47u
C1_5V
AB_ODEU
AB_CLRU
R7131 1k
CA1
TO PANEL DATA DRIVER
R7108 0
R7110 0
C7108 50V 100p
AB_CLK3N1
AB_PCU2
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
AB_LEU1
AB_CLK2P1
TERM
SIDE
R7113 6.8
R7114 6.8
R7115 6.8
R7116 6.8
C7112 100V 0.47u
C7118 16V 1u
C7114 16V 1u
C7115 100V 0.47u
CA2
TO PANEL DATA DRIVER
R7118 0
R7120 0
C7117 50V 100p
AB_CLK3N2
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
AB_LEU2
AB_CLK2P2
①
②
③
④
⑤

TH-50PV60E, TH-50PX60B
C1-Board (1 of 2) Schematic Diagram

XV-BOARD (FOIL SIDE)
TNPA3740AB

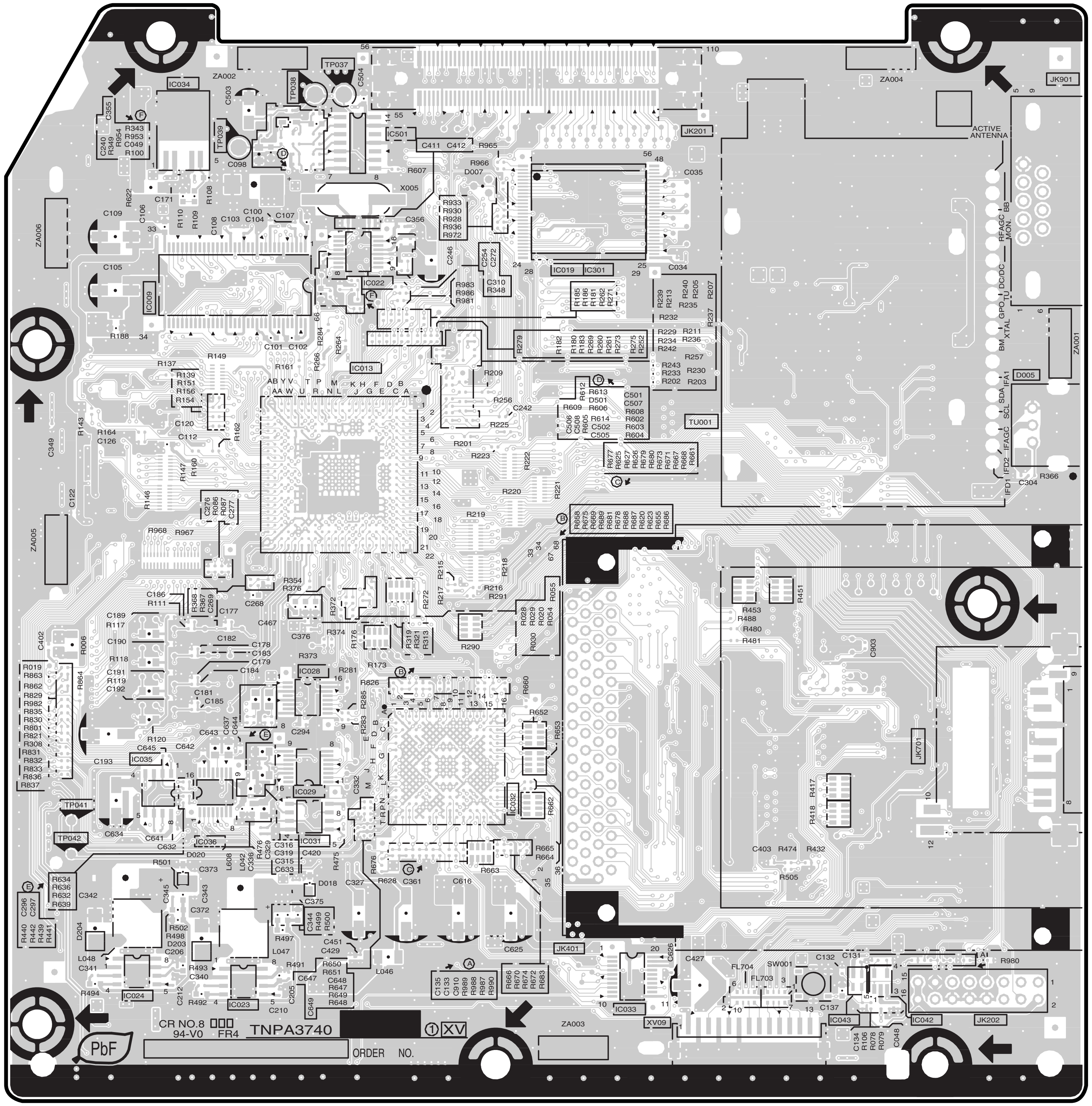

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPA3740
①XV
PbF
SEE REVERSE FOR ORDER NO.
CR NO.8
ACTIVE ANTENNA
RFAGCMON.
DC/DC
TU
GPO
XTAL
BM
IFA1
SDA
SCL
IFAGC
IFD2
IFD1
TU001
JK301
JK202
JK401
ZA007
ZA008
ZA009
ZA010
ZA011
XV01
XV04
TP033
TP025
TP027
TP015
TP014
TP001
TP023
TP016
TP006
TP024
TP032
TP003
TP017
TP018
TP030
TP031
TP008
TP019
TP020
TP021
TP022
TP002
TP005
TP004
TP007
TP009
TP012
TP013
TP010
TP036
TP035
TP034
TP011
TP029
TP040
TP028
TP026
IC864
IC003
IC412
IC411
IC901
IC409
IC213
IC408
IC410
IC404
IC402
IC401
IC405
Q101
Q102
Q103
Q104
Q007
Q401
Q402
D005
D601
D602
D004
D002
X003
X006

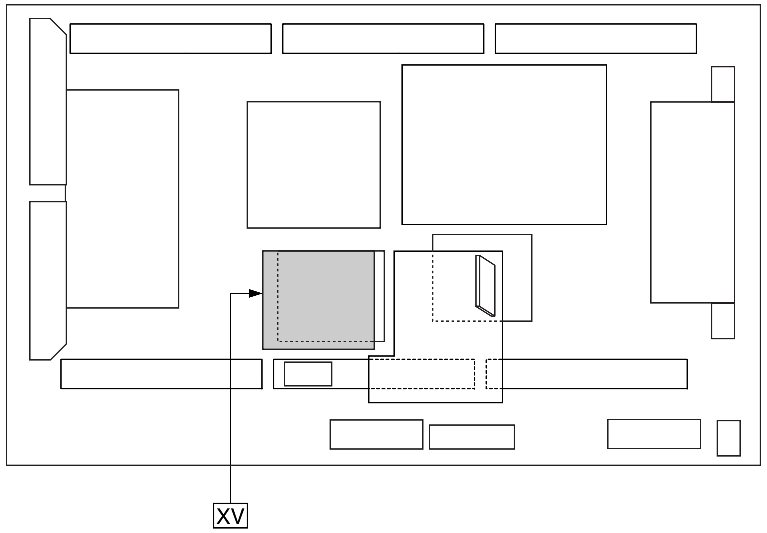


Parts Location

XV-BOARD (FOIL SIDE)			
IC		TP8006	F-2
IC8003	C-5	TP8007	E-4
IC8010	E-4	TP8008	E-3
IC8213	B-3	TP8009	E-4
IC8401	B-2	TP8010	F-4
IC8402	B-2	TP8011	F-4
IC8404	B-2	TP8012	E-4
IC8405	B-1	TP8013	F-3
IC8408	B-3	TP8014	E-2
IC8409	C-3	TP8015	D-2
IC8410	B-2	TP8016	E-1
IC8411	B-3	TP8017	E-2
IC8412	B-4	TP8018	E-2
IC8501	C-5	TP8019	E-3
IC8864	B-5	TP8020	E-3
IC8901	B-3	TP8021	E-3
		TP8022	E-3
		TP8023	E-1
		TP8024	F-2
TRANSISTOR		TP8025	B-1
Q8007	B-5	TP8026	F-5
Q8101	C-6	TP8027	D-2
Q8102	C-5	TP8028	E-5
Q8103	C-5	TP8029	D-4
Q8104	C-5	TP8030	E-2
Q8401	C-1	TP8031	E-2
Q8402	D-2	TP8032	F-2
TP		TP8033	C-6
TP8001	F-1	TP8034	F-4
TP8002	E-3	TP8035	F-4
TP8003	E-2	TP8036	F-4
TP8004	E-3	TP8040	E-4
TP8005	E-3		

XV-BOARD (COMPONENT SIDE)
TNPA3740AB


IC034
ZA002
TP037
TP038
TP039
IC501
JK201
ZA004
JK901
ACTIVE ANTENNA
ZA006
IC009
IC022
IC019
IC301
IC013
TU001
ZA001
D005
ZA005
IC028
IC035
IC029
IC031
IC032
IC036
TP041
TP042
JK701
JK401
IC024
IC023
IC033
XV09
IC043
IC042
JK202
ZA003
FL704
FL703
SW001
CR NO.8
94-V0
FR4
TNPA3740
①XV
ORDER NO.
PbF



Parts Location

XV-BOARD (COMPONENT SIDE)			
IC		TP	
IC8009	B-5	TP8037	B-6
IC8013	C-4	TP8038	B-6
IC8019	D-5	TP8039	B-5
IC8022	C-5	TP8041	A-2
IC8023	B-1	TP8042	A-2
IC8024	B-1		
IC8028	B-3		
IC8029	B-2		
IC8031	B-2		
IC8032	C-2		
IC8033	D-1		
IC8034	B-6		
IC8035	B-3		
IC8036	B-2		
IC8042	E-1		
IC8043	E-1		
IC8301	D-5		
IC8501	C-5		

TH-50PX60B
XV-BOARD TNPA3740AB

6

5

4

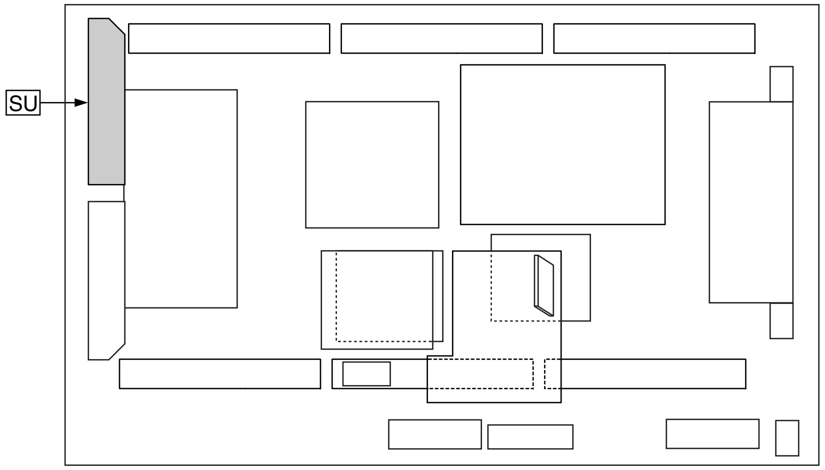
3

2

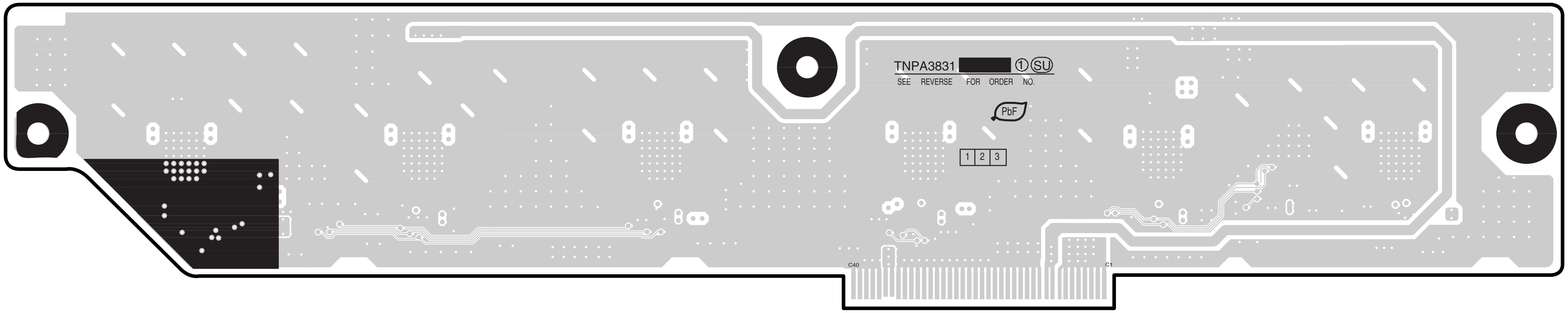
1

Parts Location

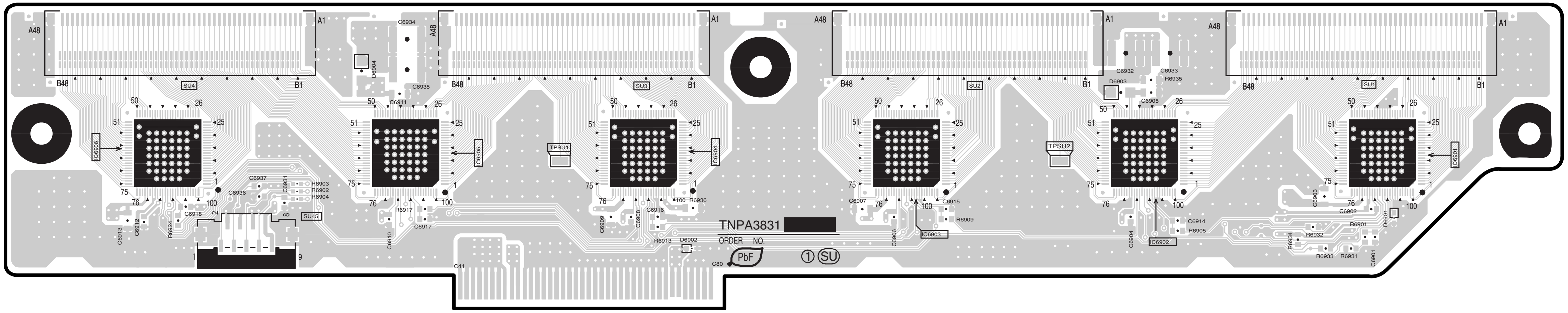
SU-BOARD	
IC	
IC6901	H-2
IC6902	G-2
IC6903	F-2
IC6904	D-2
IC6905	C-2
IC6906	B-2



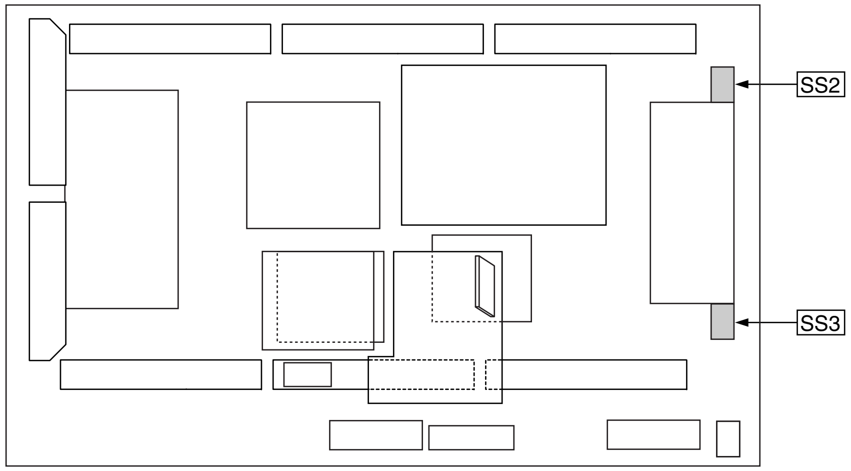
SU-BOARD (FOIL SIDE)
TXNSU1BETB


TNPA3831
①SU
SEE REVERSE FOR ORDER NO.
PbF
1 2 3
C40
C1

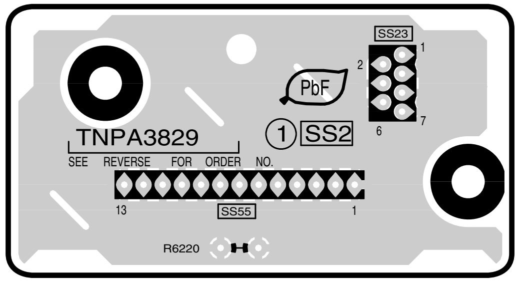
SU-BOARD (COMPONENT SIDE)
TXNSU1BETB


A48
A1
B48
B1
SU4
SU3
SU2
SU1
SU45
TPSU1
TPSU2
50
26
51
25
75
1
76
100
C6934
C6935
D6904
C6911
C6932
C6933
R6935
D6903
C6905
C6906
C6905
C6904
C6901
C6937
C6936
C6931
R6903
R6902
R6904
C6918
C6913
C6912
R6924
R6917
C6917
C6910
C6909
C6908
C6916
R6913
D6902
R6936
C6907
C6915
R6909
C6906
IC6903
C6903
C6904
C6914
R6905
IC6902
C6902
R6901
D6901
R6934
R6932
R6933
R6931
C6601
TNPA3831
ORDER NO.
PbF
①SU
C41
C80
1
9

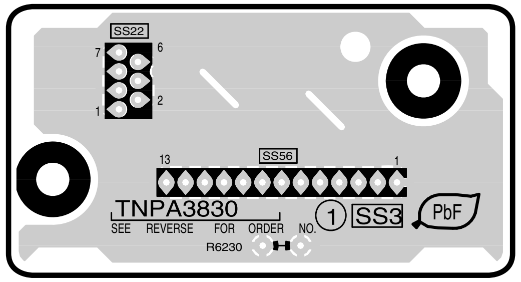
A B C D E F G H I



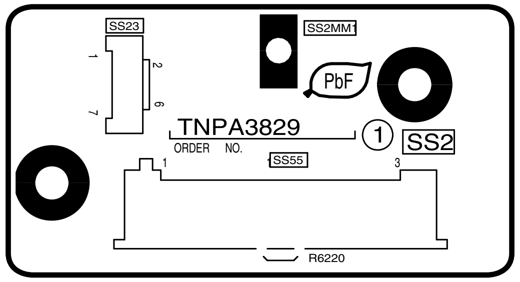
SS2-BOARD (FOIL SIDE)
TXNSS21BETB


SS23
2
1
6
7
PbF
TNPA3829
1
SS2
SEE REVERSE FOR ORDER NO.
13
SS55
1
R6220

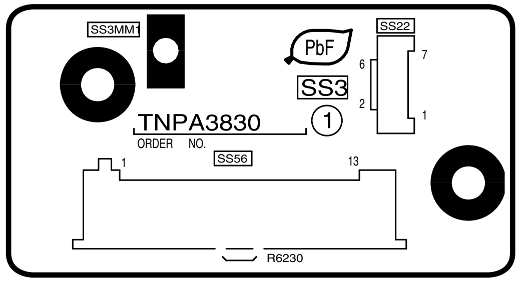
SS3-BOARD (FOIL SIDE)
TXNSS31BETB


SS22
7
6
2
1
13
SS56
1
TNPA3830
SEE REVERSE FOR ORDER NO.
1
SS3
PbF
R6230

SS2-BOARD (COMPONENT SIDE)
TXNSS21BETB

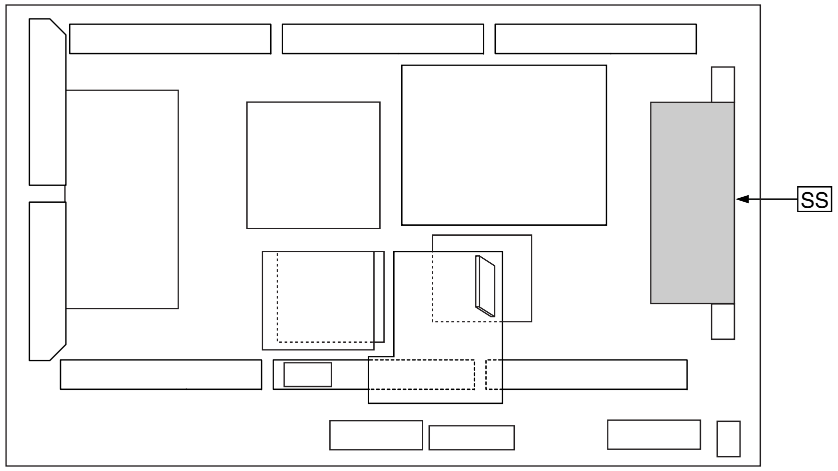

SS23
1
2
6
7
SS2MM1
PbF
TNPA3829
ORDER NO.
1
SS2
SS55
1
3
R6220

SS3-BOARD (COMPONENT SIDE)
TXNSS31BETB

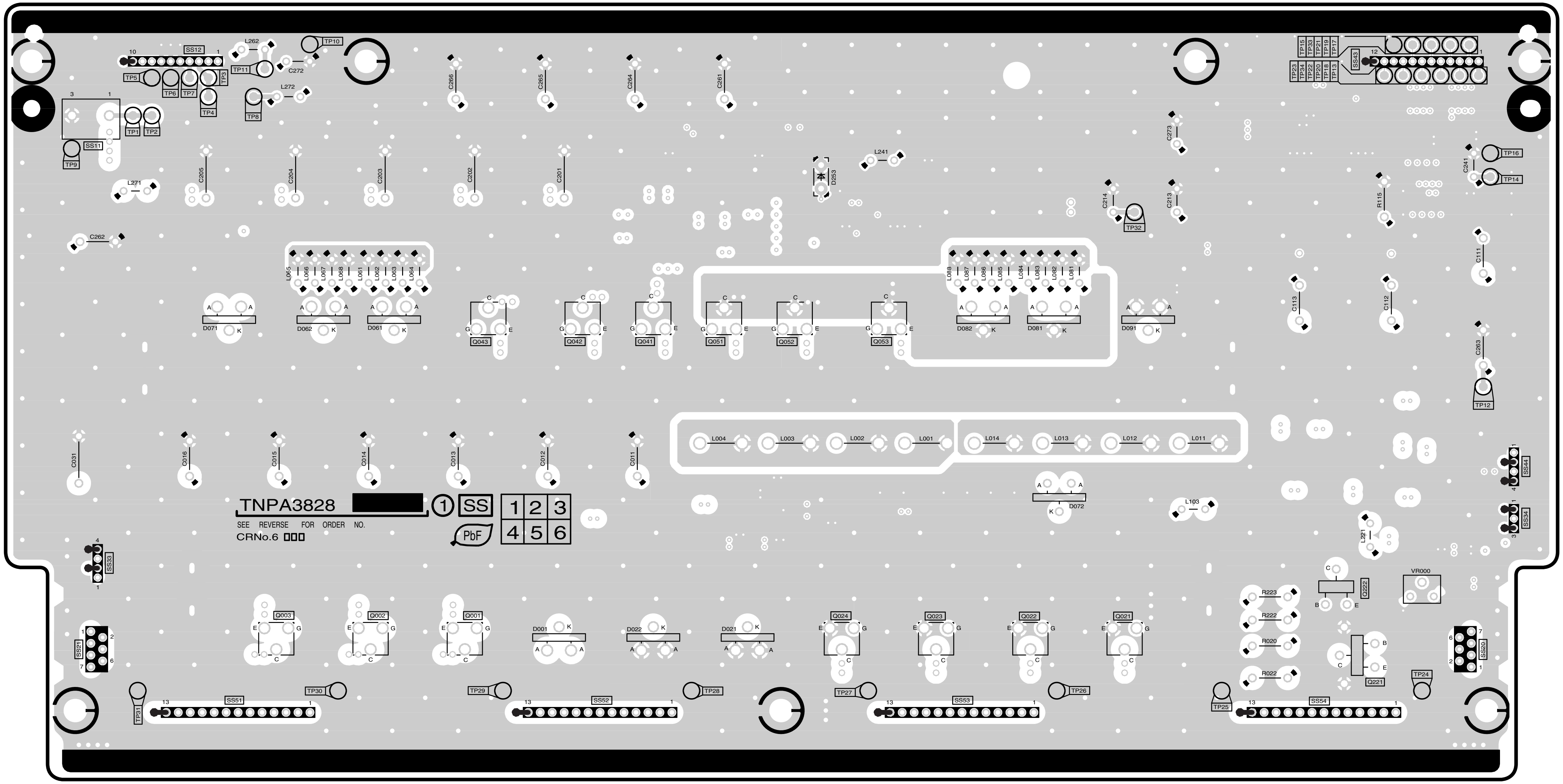

SS3MM1
PbF
SS22
6
7
SS3
2
1
TNPA3830
ORDER NO.
1
SS56
1
13
R6230

Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**			
Q6001	C-2	TP1	B-4	TP19	H-4
Q6002	C-2	TP2	B-4	TP20	H-4
Q6003	C-2	TP3	B-4	TP21	H-4
Q6021	G-2	TP4	B-4	TP22	G-4
Q6022	F-2	TP5	B-4	TP23	G-4
Q6023	F-2	TP6	B-4	TP24	H-1
Q6024	E-2	TP7	B-4	TP25	G-1
Q6041	D-3	TP8	B-4	TP26	F-1
Q6042	D-3	TP9	A-4	TP27	E-1
Q6043	C-3	TP10	C-5	TP28	D-1
Q6051	E-3	TP11	B-4	TP29	C-1
Q6052	E-3	TP12	H-3	TP30	C-1
Q6053	E-3	TP13	H-4	TP31	B-1
Q6221	H-1	TP14	H-4	TP32	G-4
Q6222	H-2	TP15	G-4	TP33	H-4
		TP16	H-4	**VOLUME**	
		TP17	H-4	VR6000	H-2
		TP18	H-4		



SS-BOARD (FOIL SIDE)
TXNSS1BETB


TNPA3828
SS
1 2 3
4 5 6
PbF
SEE REVERSE FOR ORDER NO.
CRNo.6
SS11
SS12
SS21
SS20
SS33
SS34
SS43
SS44
SS51
SS52
SS53
SS54
Q001
Q002
Q003
Q021
Q022
Q023
Q024
Q041
Q042
Q043
Q051
Q052
Q053
Q221
Q222
D001
D021
D022
D061
D062
D071
D072
D081
D082
D091
D253
L001
L002
L003
L004
L011
L012
L013
L014
L103
L221
L241
L262
L271
L272
R020
R022
R115
R222
R223
VR000
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP14
TP16
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
TP32
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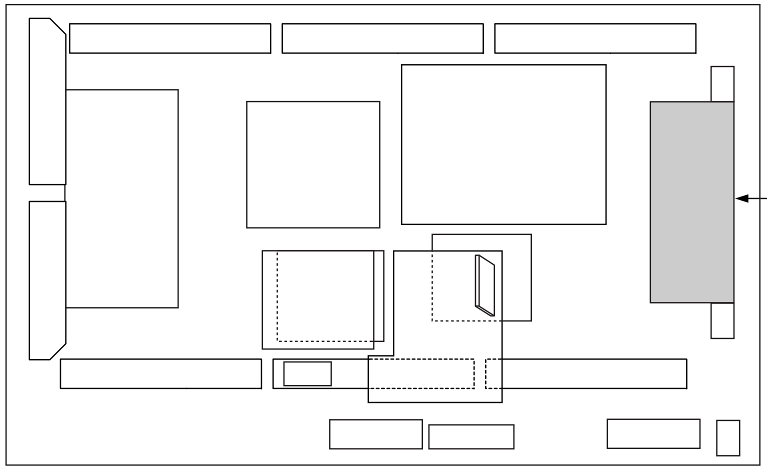
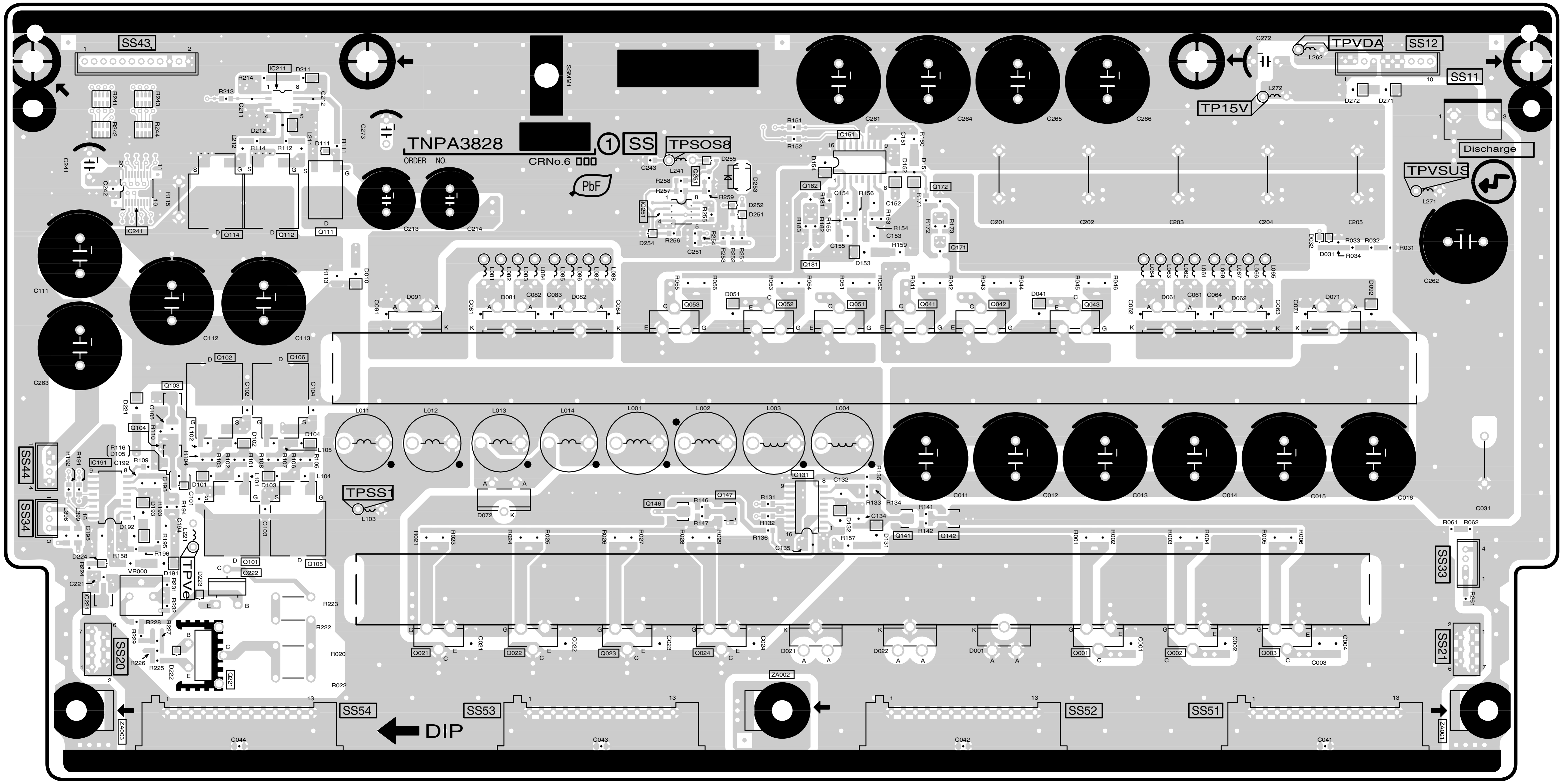
C012
C013
C014
C015
C016
C031
C111
C112
C113
C201
C202
C203
C204
C205
C213
C214
C241
C261
C262
C263
C264
C265
C266
C272
C273

Parts Location

SS-BOARD (COMPONENT SIDE)	
IC	
IC6131	E-2
IC6151	E-4
IC6191	A-2
IC6211	B-4
IC6221	A-2
IC6241	B-4
IC6251	D-4
TRANSISTOR	
Q6001	F-1
Q6002	G-1
Q6003	G-1
Q6021	C-1
Q6022	C-1
Q6023	D-1
Q6024	D-1
Q6041	F-3
Q6042	F-3
Q6043	F-3
Q6051	E-3
Q6052	E-3
Q6053	D-3
Q6101	B-2
Q6102	B-3
Q6103	B-3
Q6104	B-3
Q6105	C-2
Q6106	B-3
Q6111	C-4
Q6112	B-4
Q6114	B-4
Q6141	E-2
Q6142	F-2
Q6146	D-2
Q6147	E-2
Q6171	F-3
Q6182	E-4
Q6221	B-1
Q6222	B-2
Q6251	D-4
TP	
TP15V	G-4
TP34	G-4
TPSOS8	D-4
TPSS1	C-2
TPVDA	H-4
TPVe	B-2
TPVSUS	H-4
VOLUME	
VR6000	B-2

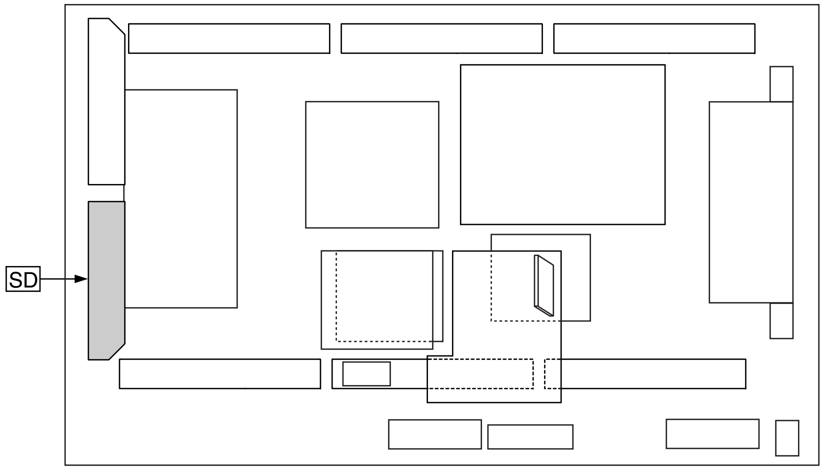


SS-BOARD (COMPONENT SIDE)
TXNSS1BETB

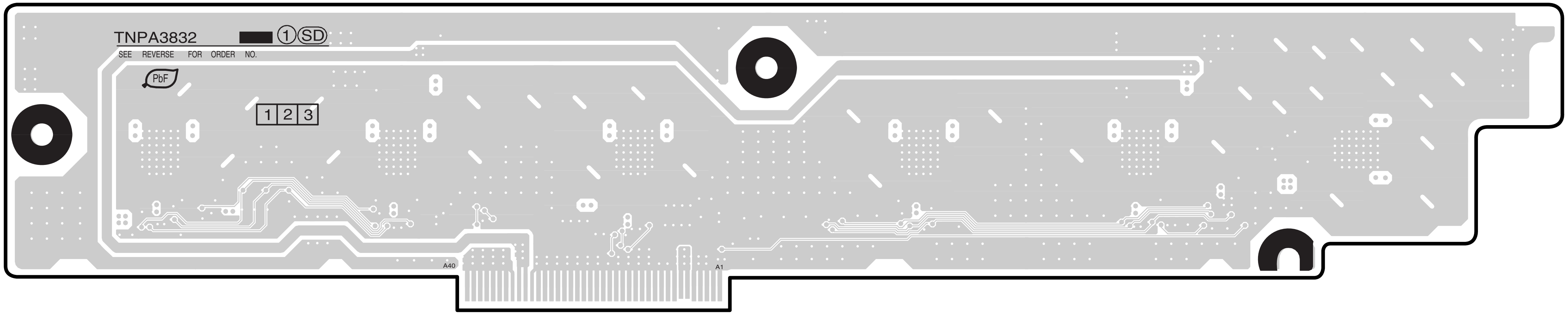

SS43
SS12
SS11
TPVDA
TP15V
TPVSUS
Discharge
TNPA3828
ORDER NO.
CRNo.6
①
SS
TPSOS8
PbF
TPSS1
TPVe
SS44
SS34
SS20
SS33
SS21
SS54
SS53
SS52
SS51
DIP
ZA001
ZA002
ZA003
VR000
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

Parts Location

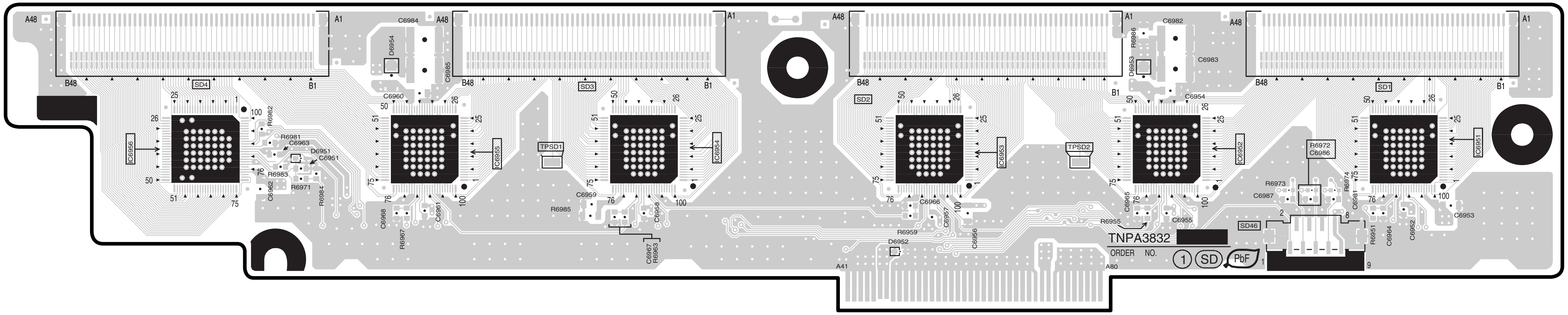
SD-BOARD	
IC	
IC6951	H-2
IC6952	G-2
IC6953	F-2
IC6954	D-2
IC6955	C-2
IC6956	B-2



SD-BOARD (FOIL SIDE)
TXNSD1BETB


TNPA3832
① SD
SEE REVERSE FOR ORDER NO.
PbF
1 2 3
A40
A1

SD-BOARD (COMPONENT SIDE)
TXNSD1BETB


A48
A1
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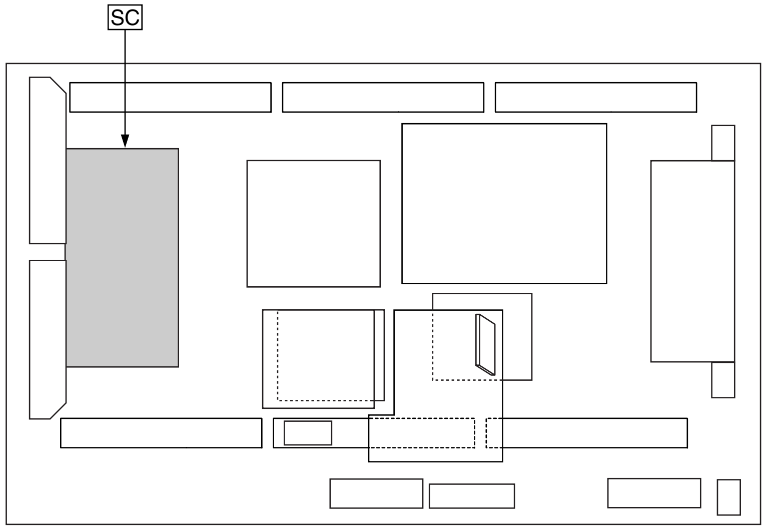
B1
SD4
SD3
SD2
SD1
SD46
IC6956
IC6955
IC6954
IC6953
IC6952
IC6951
TPSD1
TPSD2
C6984
C6985
D6954
C6960
C6959
R6985
C6982
C6983
R6986
D6953
C6954
R6972
C6986
R6973
C6987
R6974
R6982
R6981
C6963
D6951
C6951
R6983
R6971
C6962
R6984
C6968
R6967
C6961
C6958
C6957
C6967
R6963
C6966
R6959
C6956
D6952
C6965
R6955
C6955
R6951
C6964
C6952
C6981
C6953
TNPA3832
ORDER NO.
① SD
PbF
A41
A80
1
2
8
9
25
26
50
51
75
76
100

A B C D E F G H I

1 2 3 4 5 6



Parts Location

SC-BOARD (FOIL SIDE)

IC	
IC6791	H-2
IC6803	G-2

TRANSISTOR	
Q6401	F-4
Q6402	E-4
Q6403	E-4
Q6421	C-4
Q6422	C-4
Q6423	B-4
Q6441	E-2
Q6442	E-2
Q6443	D-2
Q6451	D-2
Q6452	D-2
Q6453	C-2
Q6804	H-2
Q6821	H-4
Q6822	H-4
Q6841	H-3
Q6842	H-3

TP	
TP1	B-2
TP2	B-2
TP4	A-2
TP5	A-2
TP6	A-3
TP7	A-3
TP8	B-3
TP9	A-3
TP10	G-1
TP11	G-2
TP12	G-1
TP13	H-2
TP14	G-1
TP15	H-2
TP16	H-2
TP17	H-2
TP18	H-2
TP19	H-1
TP20	G-2
TP21	H-2
TP22	H-2
TP23	G-2
TP24	G-1
TP25	G-1
TP26	G-2
TP27	G-1
TP28	H-2
TP29	I-4
TP30	I-5
TP31	F-5
TP32	B-5
TP33	A-3
TP34	E-2
TP35	D-3
TP38	H-2
TP39	G-2
TP40	D-5
TP41	D-5
TP42	D-5
TP43	D-5
TP44	D-5
TP45	C-5
TP46	F-5
TP47	F-5
TP48	F-5
TP49	F-5
TP50	F-5
TP51	H-5
TP52	G-2
TP53	H-3
TP54	C-5
TP55	C-5
TP56	B-5
TP59	H-5
TP60	H-5
TP61	H-5
TP62	G-5
TP63	G-5
TP64	H-4
TP65	H-4
TP67	B-5
TP68	B-5

VOLUME	
VR6600	G-3
VR6601	H-5
VR6602	E-4

Parts Location

SC-BOARD (COMPONENT SIDE)

IC	
IC6471	B-5
IC6472	B-3
IC6501	F-4
IC6521	F-2
IC6561	B-1
IC6562	C-1
IC6581	F-2
IC6601	B-5
IC6602	A-4
IC6610	B-4
IC6671	D-4
IC6681	C-4
IC6682	A-4
IC6721	A-4
IC6722	A-4
IC6724	B-5
IC6725	B-5
IC6751	I-4
IC6752	H-4
IC6753	I-4
IC6771	C-4
IC6772	E-5
IC6773	D-4
IC6774	C-4
IC6791	B-2
IC6801	C-3
IC6802	B-3
IC6803	C-2
IC6821	B-4
IC6841	B-3
IC6861	B-4
IC6871	A-3

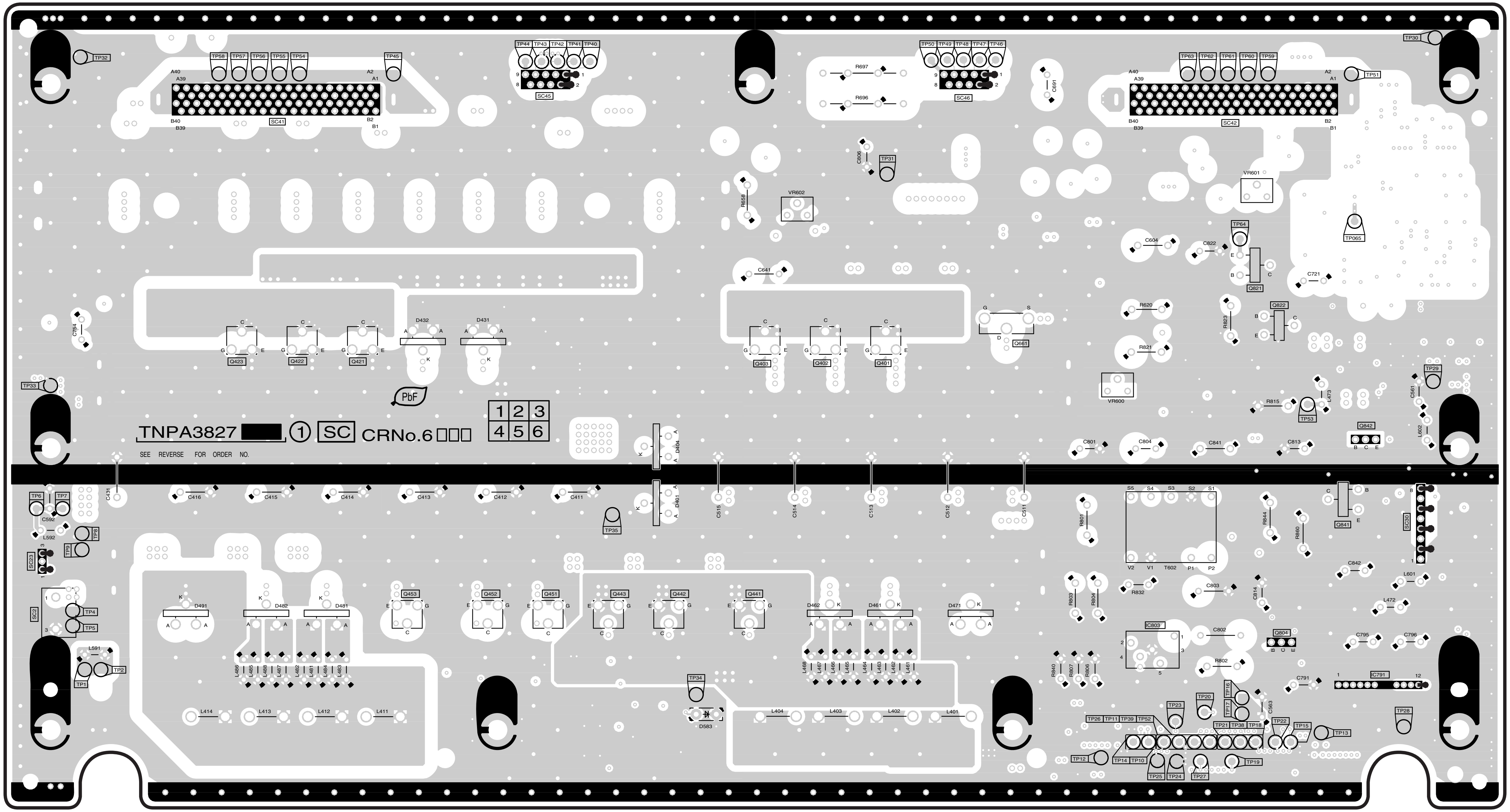
PHOTO COUPLER	
PC6480	B-4
PC6701	A-4
PC6702	A-4
PC6703	A-4
PC6704	I-4
PC6705	C-4
PC6760	I-4
PC6861	B-4
PC6871	A-2

TRANSISTOR	
Q6401	D-4
Q6402	E-4
Q6403	E-4
Q6421	G-4
Q6422	H-4
Q6423	H-4
Q6441	E-2
Q6442	F-2
Q6443	F-2
Q6451	F-2
Q6452	F-2
Q6453	G-2
Q6471	B-3
Q6511	F-4
Q6512	E-4
Q6516	G-4
Q6517	G-4
Q6531	E-2
Q6532	F-2
Q6551	F-2
Q6552	F-2
Q6581	E-2
Q6601	C-5
Q6602	C-4
Q6621	B-4
Q6622	G-4
Q6641	F-5
Q6642	F-5
Q6643	G-5
Q6644	G-5
Q6645	G-5
Q6646	H-5
Q6647	H-5
Q6648	H-5
Q6661	D-4
Q6662	E-5
Q6663	E-4
Q6671	D-4
Q6672	D-4
Q6673	D-4
Q6680	D-4
Q6681	D-4
Q6682	D-5
Q6691	D-5
Q6742	A-4
Q6743	B-5
Q6744	A-4
Q6762	H-4
Q6781	E-5
Q6782	E-5
Q6791	A-3
Q6803	C-3
Q6804	B-2
Q6821	G-4
Q6822	B-4
Q6824	C-4
Q6841	B-3
Q6842	B-3

TP	
TP15V	I-3
TPSC1	D-5
TPSOS6	B-2
TPSOS7	B-3
TPVAD	B-2
TPVSCN	B-3
TPVSET	C-4
TPVSET2	B-3
TPVSUS	H-2

VOLUME	
VR6600	C-3
VR6601	B-4
VR6602	E-4

SC-BOARD (FOIL SIDE)
TXNSC1BETB


TNPA3827 ① SC CRNo.6
SEE REVERSE FOR ORDER NO.
1 2 3
4 5 6
PbF
SC41
SC42
SC45
SC46
SC22
SC23
SC28
TP1
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TP4
TP5
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TP8
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TP35
TP51
TP53
TP64
TP065
Q401
Q402
Q403
Q421
Q422
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Q441
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Q452
Q453
Q661
Q804
Q821
Q822
Q841
Q842
D431
D432
D461
D462
D471
D481
D482
D491
D583
VR600
VR601
VR602
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IC803
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L401
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L404
L411
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L414
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L601
C801
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C803
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C841
C842
C813
C795
C796
C791
C604
C641
C721
C822
R620
R621
R696
R697
R802
R815
R832
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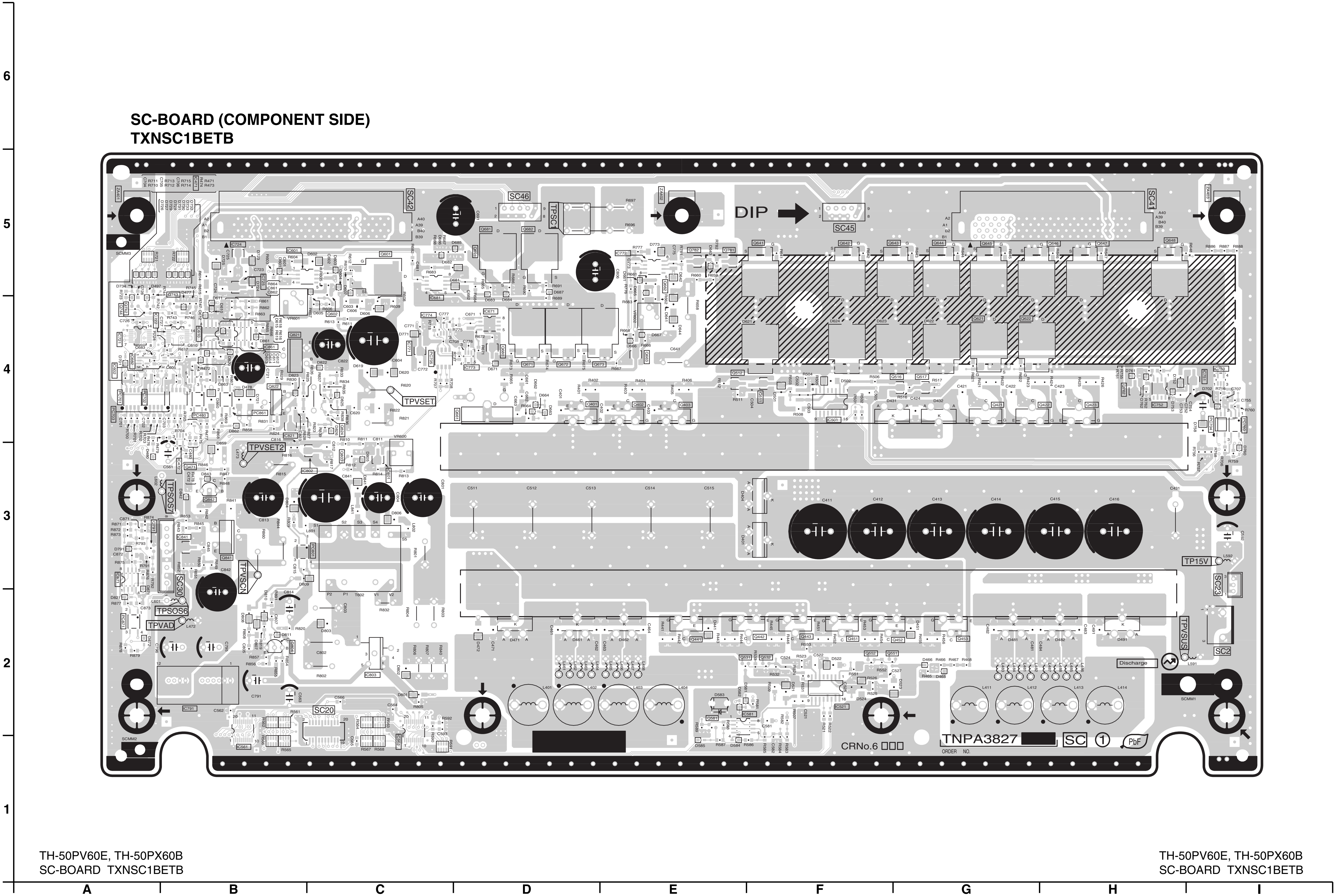
SC-BOARD (COMPONENT SIDE)
TXNSC1BETB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I
SC42
SC46
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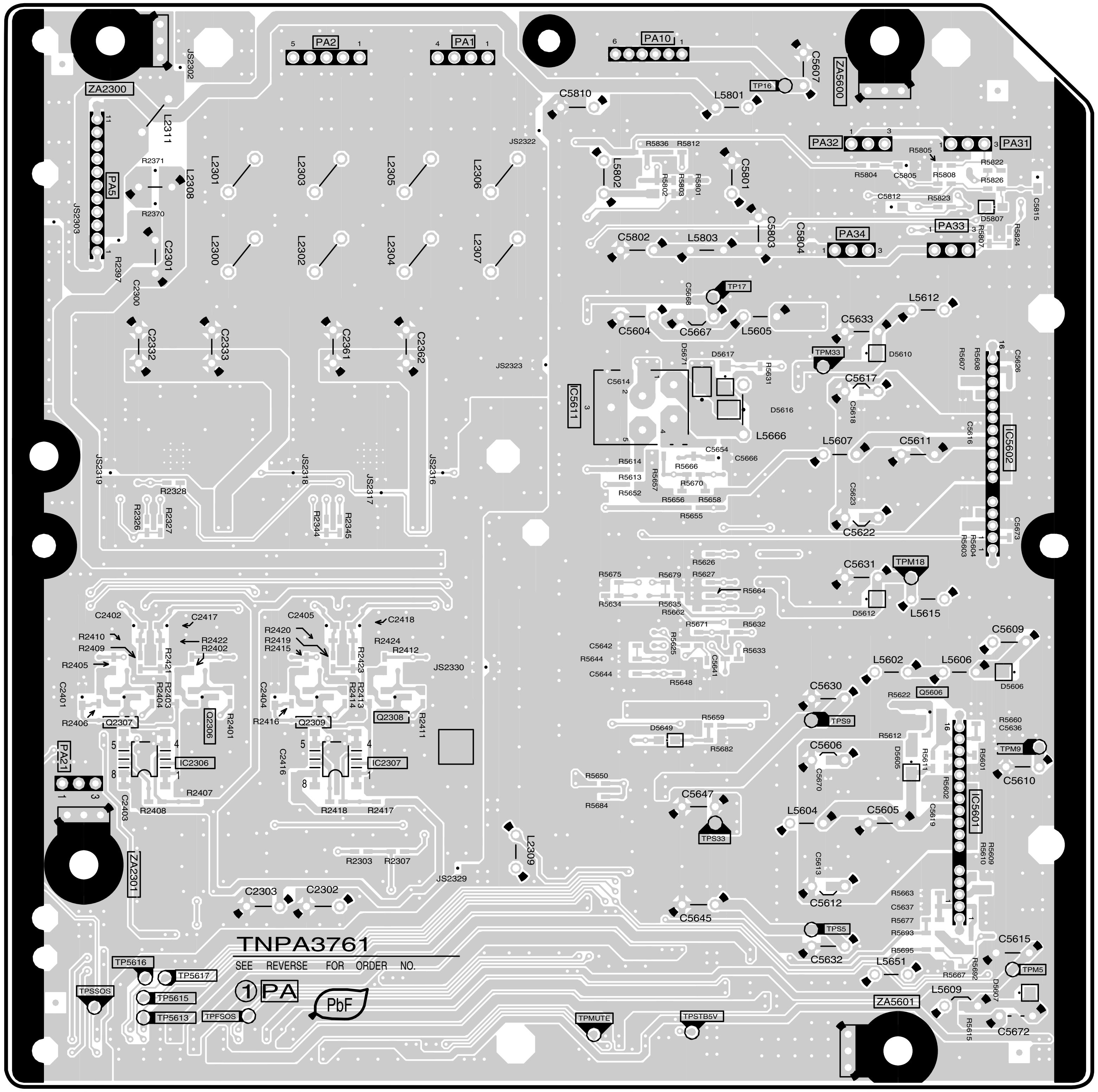
DIP
SC45
SC41
TPVSET
TPVSET2
TPSOS7
TPVSCN
SC30
TPSOS6
TPVAD
SC20
TP15V
SC23
TPVSUS
SC2
Discharge
SCMM1
SCMM2
SCMM3
TNPA3827
SC ①
PbF
CRNo.6
ORDER NO.

PA-BOARD (FOIL SIDE)
TXNPA1BJTB



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H
I
ZA2300
JS2302
PA2
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PA1
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1
PA10
6
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TP16
C5607
ZA5600
C5810
L5801
JS2322
L2311
R2371
PA5
L2308
L2301
L2303
L2305
L2306
JS2303
R2370
L2300
L2302
L2304
L2307
C2301
R2397
C2300
R5836
R5812
L5802
R5802
R5803
R5801
C5801
PA32
PA31
R5805
R5822
R5804
C5805
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R5826
C5812
R5823
D5807
C5815
R5824
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C5803
C5804
PA34
PA33
R5807
TP17
C5668
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L5605
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C2333
C2361
C2362
JS2323
D5671
D5617
TPM33
D5610
R5607
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R5656
R5658
R5655
JS2319
JS2318
JS2317
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R2326
R2327
R2344
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C2405
C2418
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R2409
R2405
R2422
R2402
R2420
R2419
R2415
R2424
R2412
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R5644
C5644
R5625
C5641
R5633
R5648
JS2330
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R2404
R2401
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Q2307
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Q2309
Q2308
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D5605
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R5601
C5610
PA21
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R2408
R2407
R2418
R2417
R5650
R5684
C5670
R5602
C5647
L5604
C5605
C5619
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L2309
TPS33
R5609
R5610
C5613
R2303
R2307
JS2329
C2303
C2302
C5612
R5663
C5637
C5645
R5677
TPS5
R5693
C5615
TNPA3761
SEE REVERSE FOR ORDER NO.
①PA
PbF
C5632
R5695
L5651
TP5616
TP5617
R5667
R5692
TPM5
TPSSOS
TP5615
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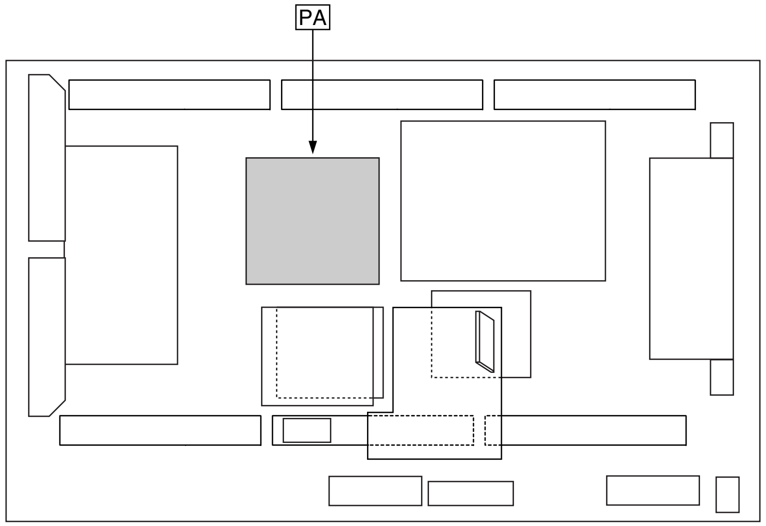
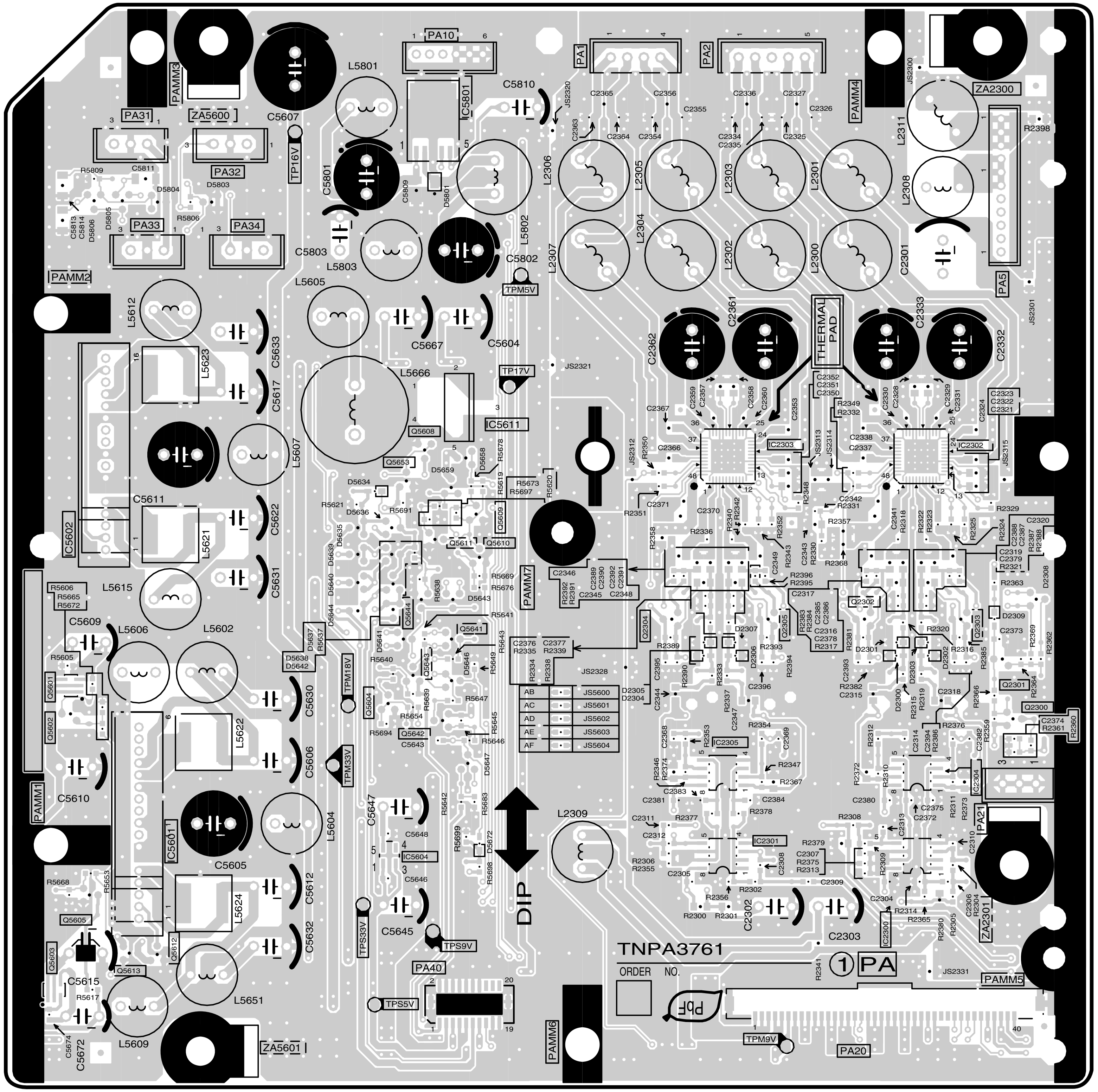
D5607
TP5613
TPFSOS
TPMUTE
TPSTB5V
R5615
C5672



Parts Location

PA-BOARD (FOIL SIDE)			
IC		**TP**	
IC2306	B-2	TP16	D-6
IC2307	C-2	TP17	D-5
IC5601	E-2	TP5613	B-1
IC5602	F-4	TP5615	B-1
IC5611	D-4	TP5616	A-1
		TP5617	B-1
TRANSISTOR		TPFSOS	B-1
Q2306	B-3	TPM5	F-2
Q2307	A-2	TPM9	F-2
Q2308	C-3	TPM18	E-3
Q2309	B-3	TPM33	E-4
Q5606	E-3	TPMUTE	D-1
		TPS5	E-2
		TPS9	E-3
		TPS33	D-2
		TPSSOS	A-1
		TPSTB5V	D-1

PA-BOARD (COMPONENT SIDE)
TXNPA1BJTB



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PA1
PA2
PAMM3
PAMM4
PAMM2
PAMM1
PAMM5
PAMM6
PAMM7
PA31
PA32
PA33
PA34
PA5
PA20
PA21
PA40
ZA5600
ZA5601
ZA2300
ZA2301
L5801
L5802
L5803
L5605
L5612
L5623
L5607
L5666
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L2306
L2305
L2303
L2301
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L2304
L2302
L2300
L2311
L2308
L2309
C5801
C5803
C5810
C5802
C5607
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C5604
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C5622
C5631
C5609
C5630
C5606
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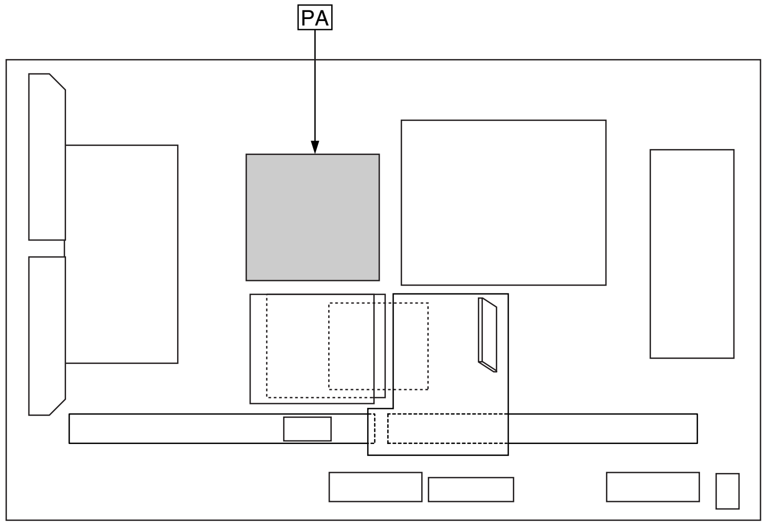
C5612
C5632
C5645
C5647
C5615
C5672
C2362
C2361
C2333
C2332
C2301
C2302
C2303
THERMAL PAD
IC5602
IC5601
IC5611
IC5604
IC2302
IC2303
IC2304
IC2305
IC2301
IC2300
Q5608
Q5605
Q5613
Q2300
Q2301
Q2302
TP16V
TP17V
TPM5V
TPM18V
TPM33V
TPS5V
TPS9V
TPS33V
TPM9V
AB JS5600
AC JS5601
AD JS5602
AE JS5603
AF JS5604
DIP
TNPA3761
ORDER NO.
① PA
PbF



Parts Location

PA-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC2300	E-2	Q2300	F-3	TP16V	B-5
IC2301	D-2	Q2301	F-3	TP17V	C-4
IC2302	E-4	Q2302	E-2	TPM5V	C-5
IC2303	E-4	Q2303	E-3	TPM18V	B-3
IC2304	E-2	Q2304	D-3	TPM33V	B-2
IC2305	D-3	Q2305	E-3	TPS5V	C-1
IC5601	B-2	Q5601	A-3	TPS9V	C-2
IC5602	A-3	Q5602	A-3	TPS33V	C-2
IC5604	C-2	Q5603	A-1		
IC5611	C-4	Q5604	C-3		
IC5801	C-5	Q5605	A-2		
		Q5608	C-4		
		Q5609	C-4		
		Q5610	C-3		
		Q5611	C-3		
		Q5612	B-1		
		Q5613	A-1		
		Q5641	C-3		
		Q5642	C-3		
		Q5643	C-3		
		Q5644	C-3		
		Q5653	C-4		

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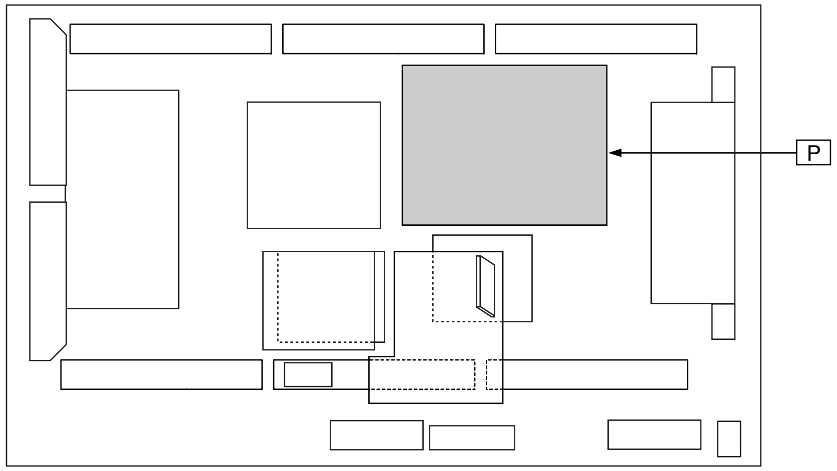
A B C D E F G H I



Parts Location

P-BOARD (FOIL SIDE)

IC	
IC101	H-3
IC401	F-5
IC501	B-3

MODULE	
MC101	G-3
MC201	C-3
MC202	D-3
MC301	F-3
MC502	C-2
MC601	C-4
MC701	H-5

PHOTO COUPLER	
PC503	C-4
PC505	C-4
PC506	H-4

VOLUME	
VR251	C-5
VR351	F-4
VR401	E-5

TRANSISTOR	
Q103	H-2
Q104	H-2
Q106	H-2
Q301	H-3
Q302	G-3
Q351	F-5
Q352	G-5
Q353	F-5
Q354	F-4
Q401	F-4
Q402	G-4
Q403	E-4
Q404	G-5
Q405	F-5
Q406	E-4
Q501	B-3
Q502	B-3
Q551	G-5
Q552	G-6
Q553	G-6

Parts Location

P-BOARD (COMPONENT SIDE)

IC	
IC101	B-3
IC401	E-5
IC501	H-3

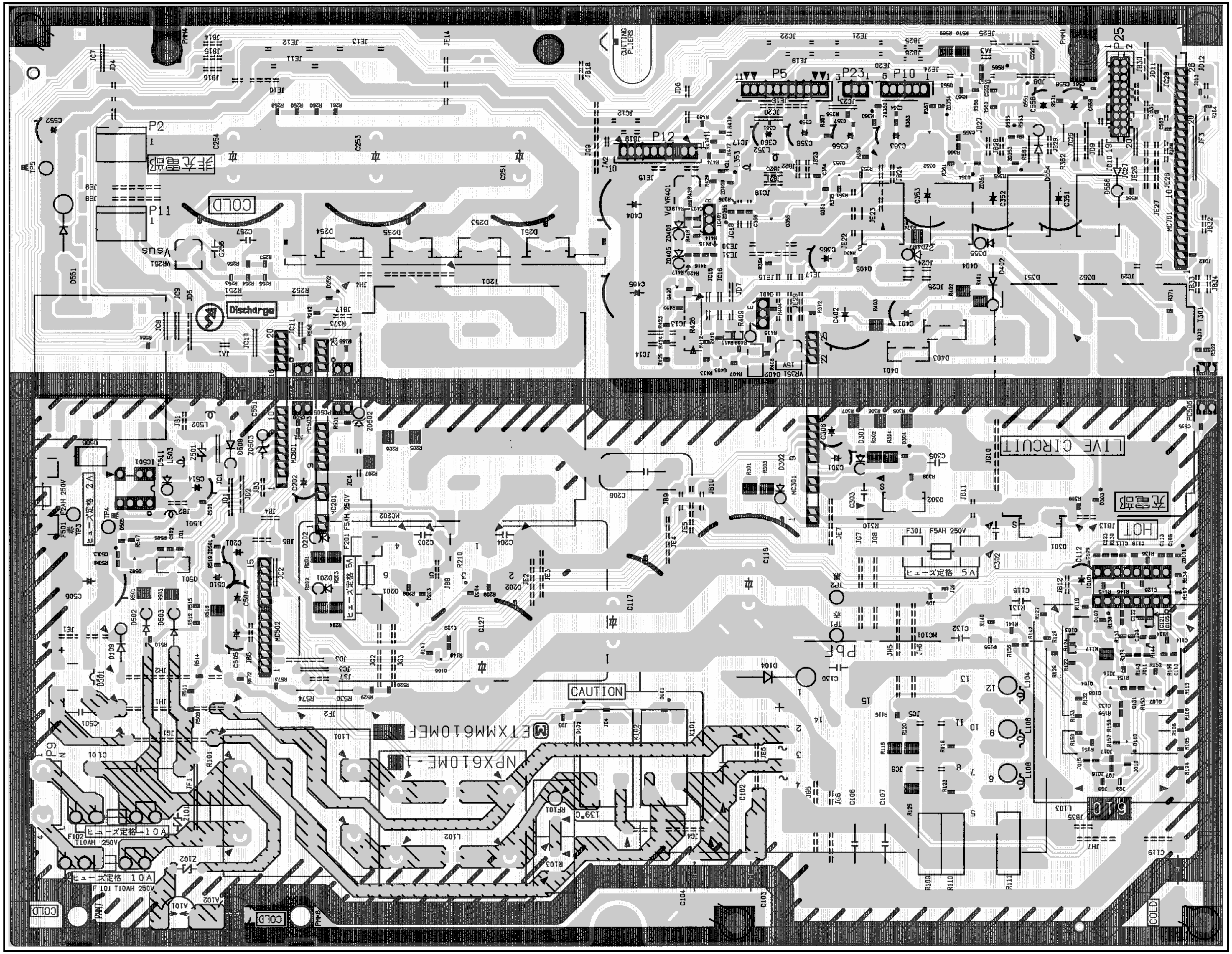
MODULE	
MC101	C-3
MC201	G-3
MC202	E-3
MC301	D-3
MC502	G-2
MC601	G-4
MC701	B-5

PHOTO COUPLER	
PC503	G-4
PC505	G-4
PC506	B-4

TRANSISTOR	
Q301	C-3
Q302	C-3
Q401	E-5
Q402	D-4
Q404	C-5
Q405	D-5
Q501	H-3

VOLUME	
VR251	H-5
VR351	D-4
VR401	E-5

P-BOARD (FOIL SIDE)
ETXMM610MEF


6
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E
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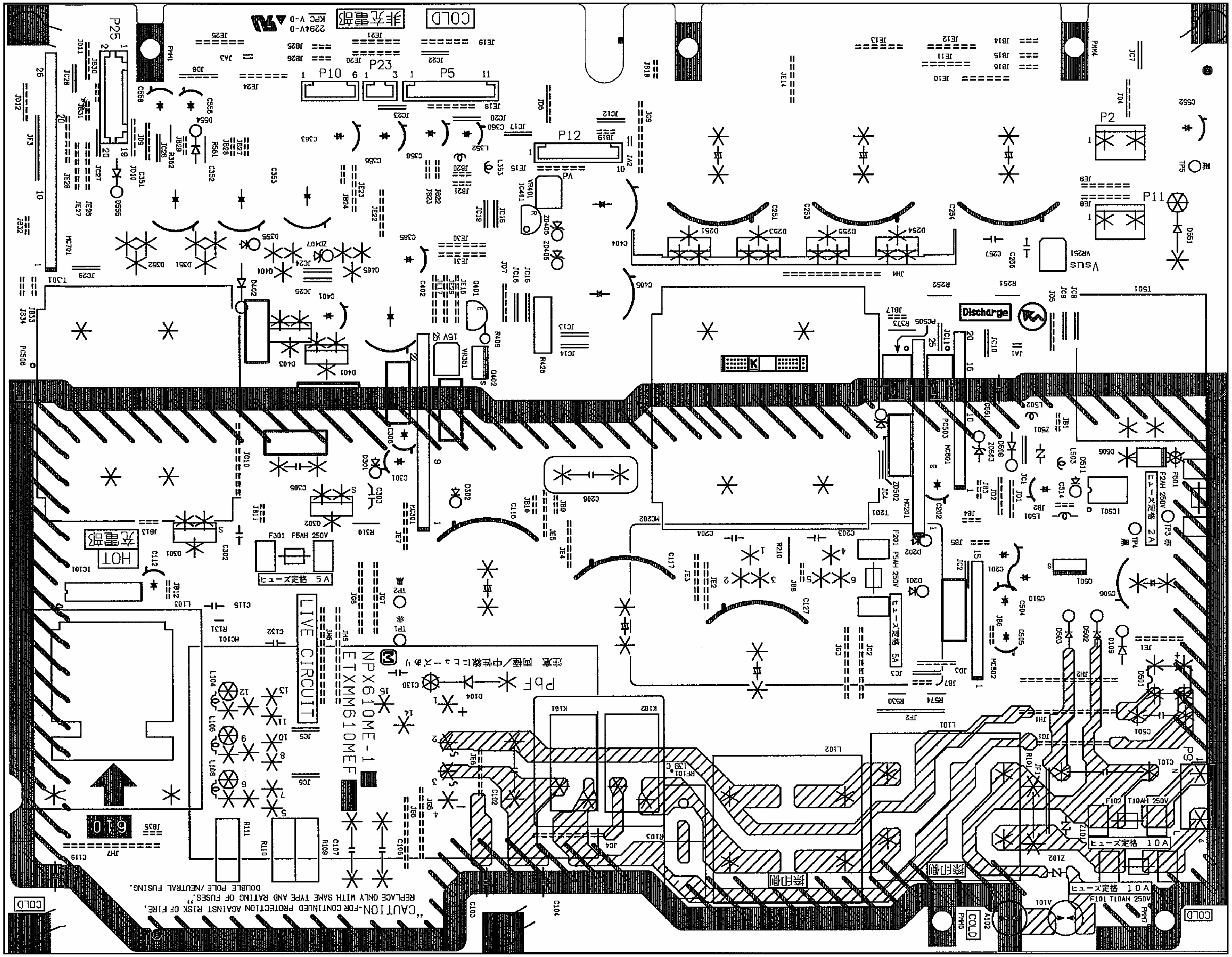
G
H
I
P2
P11
P5
P23
P10
P12
P25
P9
COLD
Discharge
Vsus
CUTTING PLIERS
LIVE CIRCUIT
HOT
CAUTION
ETXMM610MEF
NPX610ME-1
F301 F5AH 250V
F201 F5AH 250V
F501 F2AH 250V
F101 T10AH 250V
F102 T10AH 250V

P-BOARD (COMPONENT SIDE)
ETXMM610MEF


P25
P10
P23
P5
P12
P2
P11
P9
COLD
HOT
Discharge
Vsus
LIVE CIRCUIT
NPX610ME-1
ETXMM610MEF
PbF
610
F301 F5AH 250V
ヒューズ定格 5A
F201 F5AH 250V
ヒューズ定格 5A
F102 T10AH 250V
ヒューズ定格 10A
F101 T10AH 250V
ヒューズ定格 10A
"CAUTION-FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES"
DOUBLE POLE/NEUTRAL FUSING.
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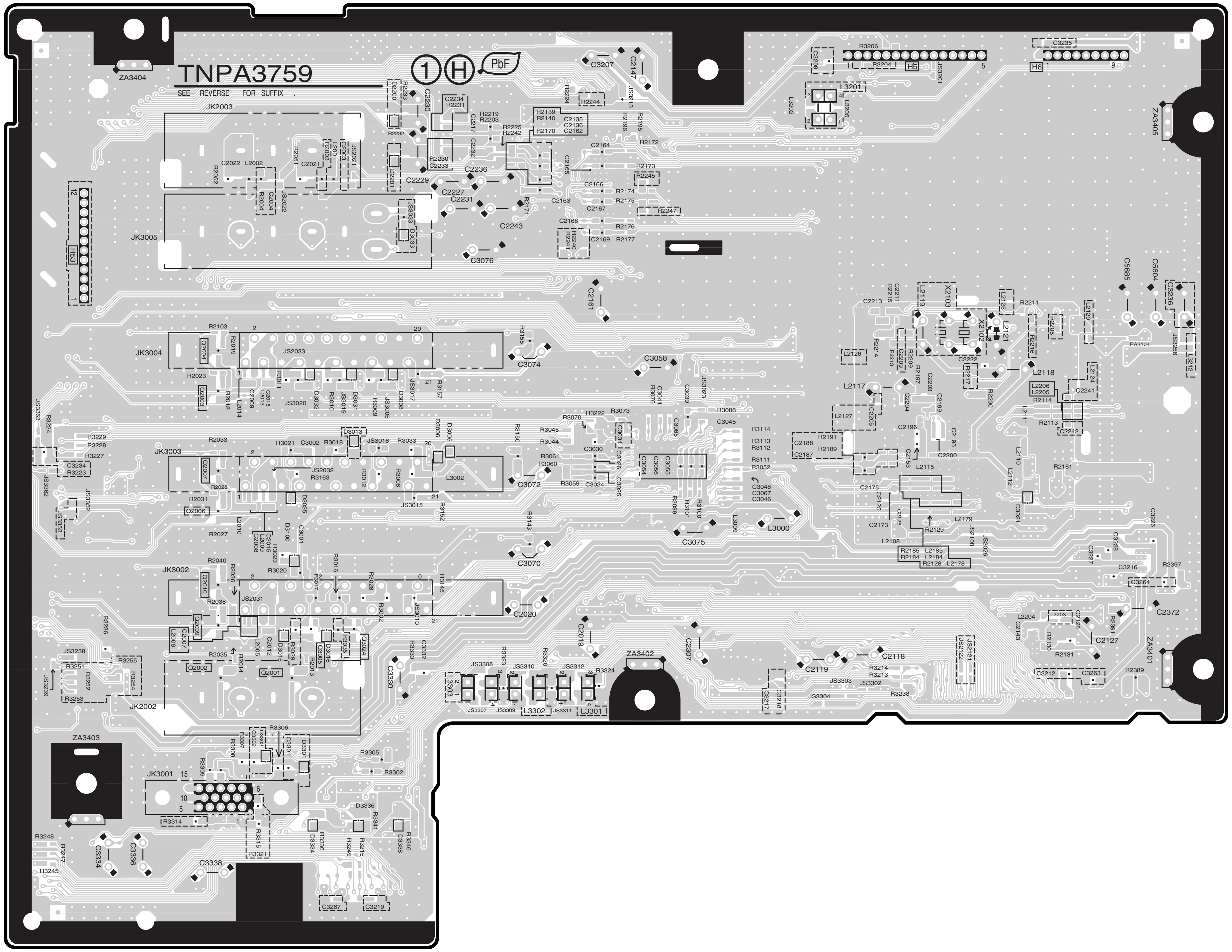
H-BOARD (FOIL SIDE)
TNPA3759AD


TNPA3759
SEE REVERSE FOR SUFFIX
① Ⓗ PbF
ZA3404
ZA3403
ZA3402
ZA3405
ZA3401
JK2003
JK3005
JK3004
JK3003
JK3002
JK2002
JK3001
JS2033
JS2032
JS2031
L3201
L3000
L3002
L3301
L3302
L2118
L2117
C3074
C3058
C3072
C3070
C3075
C2020
C3076
C2161
C2127
C2372
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C2147
C2230
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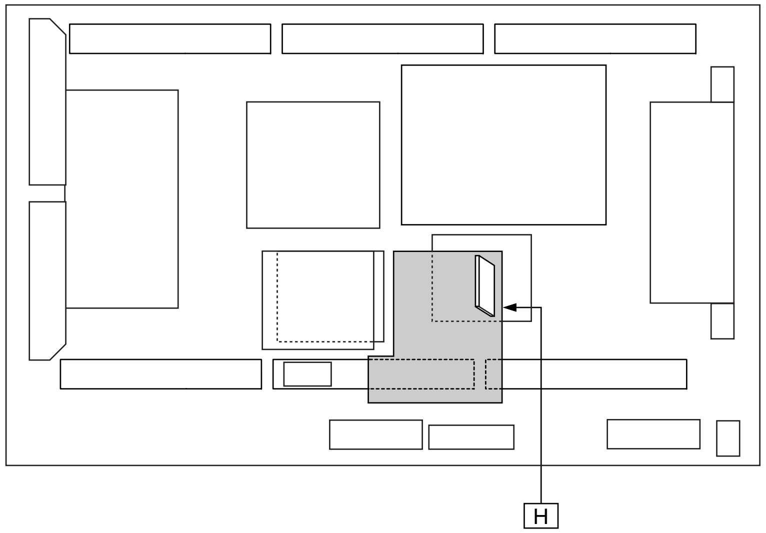
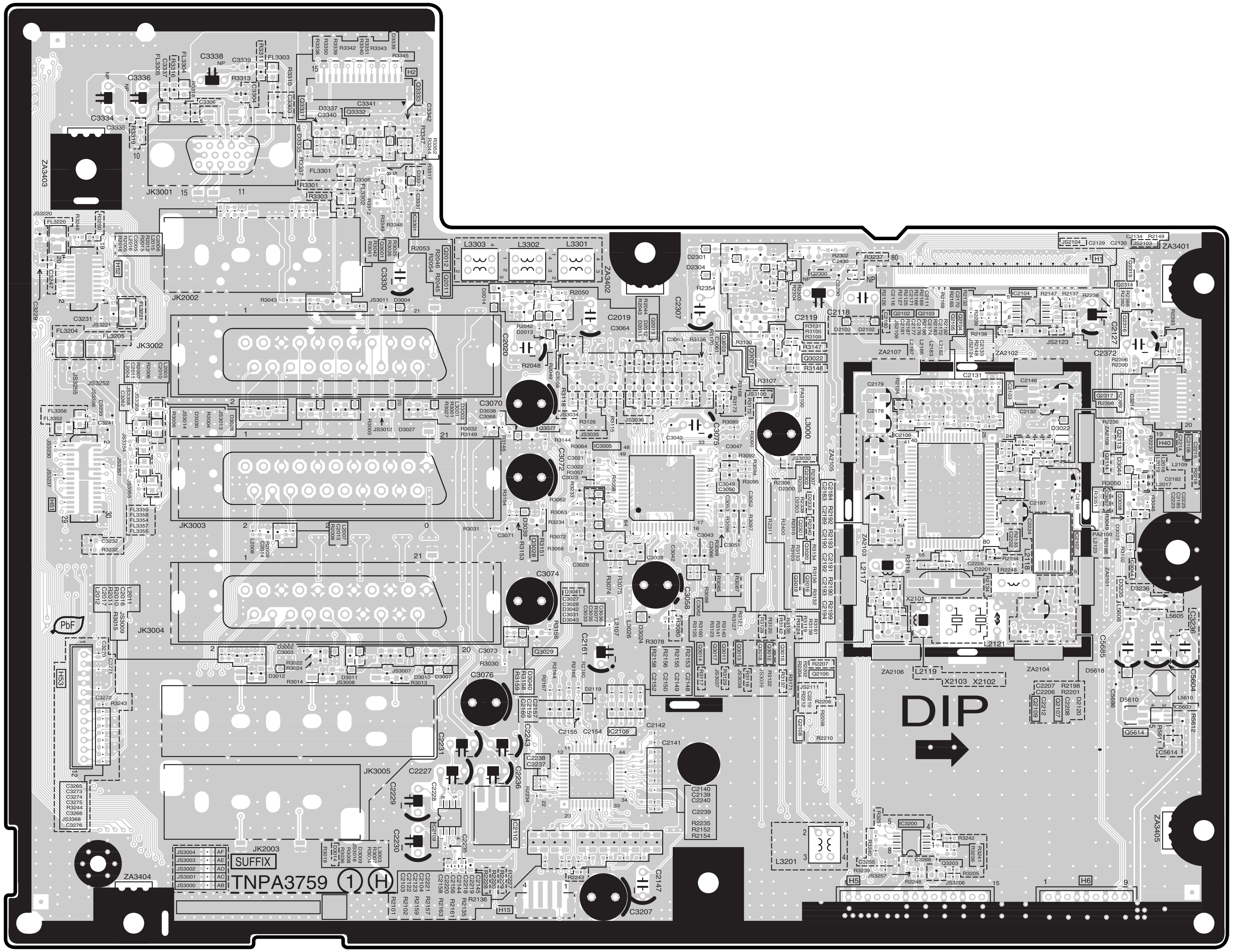
C2229
C2227
C2231
C2243
C3338

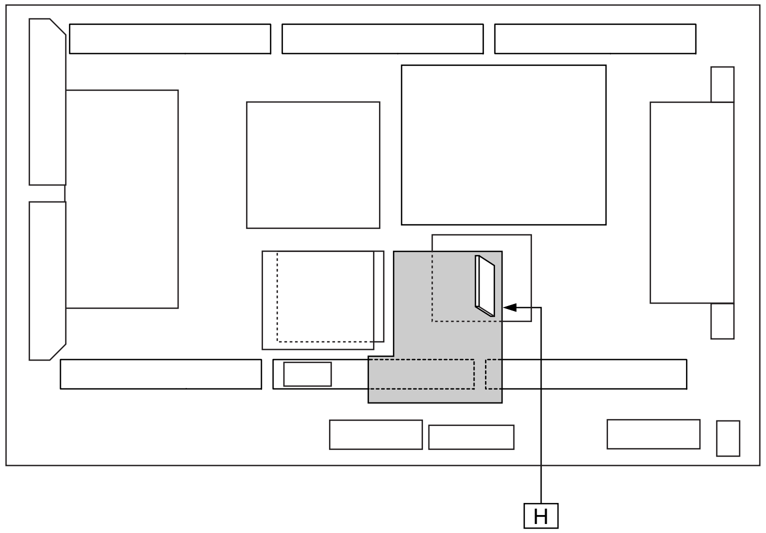


Parts Location

H-BOARD (FOIL SIDE)			
TRANSISTOR		Q3005	B-3
		Q3024	C-3
Q2001	B-2		
Q2002	B-2		
Q2003	B-4		
Q2004	B-4		
Q2006	B-3		
Q2007	B-3		
Q2009	B-3		
Q2010	B-3		

H-BOARD (COMPONENT SIDE)
TNPA3759AD


JK3001
JK2002
JK3002
JK3003
JK3004
JK3005
JK2003
ZA3403
ZA3402
ZA3401
ZA3404
ZA3405
L3000
L3201
DIP
SUFFIX
TNPA3759 ① Ⓗ
PbF



Parts Location

H-BOARD (COMPONENT SIDE)			
IC		Q2316	F-4
IC2103	F-4	Q2317	F-4
IC2104	F-4	Q3001	C-5
IC2105	D-2	Q3008	F-3
IC2106	E-4	Q3011	D-3
IC2107	F-3	Q3012	E-3
IC2108	G-4	Q3013	D-3
IC2109	C-2	Q3014	D-3
IC2110	C-2	Q3015	E-3
IC3005	D-4	Q3016	E-3
IC3200	E-2	Q3017	D-3
IC3301	C-5	Q3018	E-3
IC5603	G-2	Q3019	E-3
TRANSISTOR		Q3020	E-3
Q2011	C-4	Q3021	D-4
Q2012	C-5	Q3022	E-4
Q2013	C-4	Q3023	D-4
Q2102	E-4	Q3027	C-4
Q2103	E-4	Q3028	C-3
Q2104	E-4	Q3029	C-3
Q2105	E-4	Q3203	E-2
Q2106	E-2	Q3331	B-5
Q2107	F-2	Q3332	B-5
Q2108	E-2	Q3333	C-5
Q2109	F-2	Q5614	F-2
Q2113	F-4		
Q2114	F-4		
Q2300	E-4		
Q2301	E-3		
Q2302	E-3		
Q2314	F-4		
Q2315	F-5		

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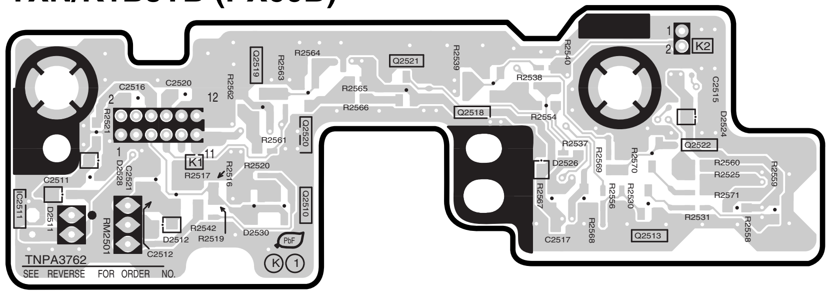
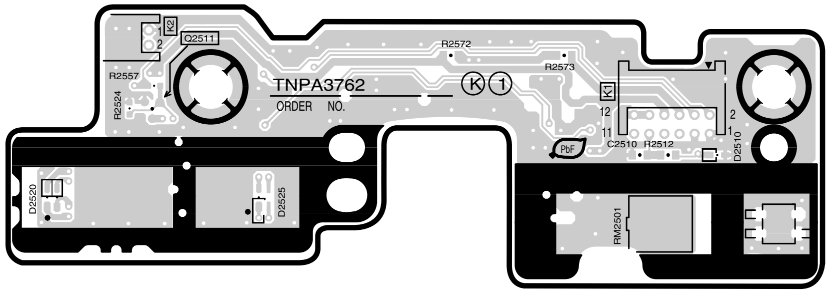
K-BOARD (FOIL SIDE)
TXN/K1BJTE (PV60E)
TXN/K1BJTB (PX60B)

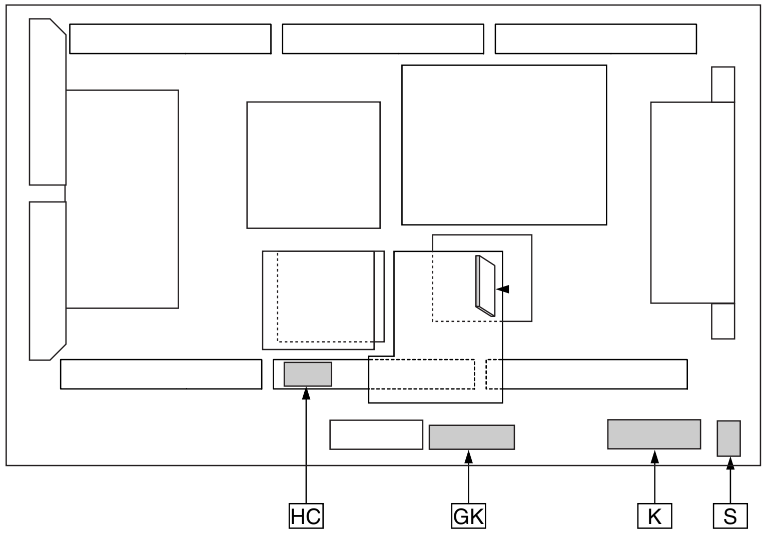


TNPA3762
SEE REVERSE FOR ORDER NO.
K1
K2
PbF
R2564
Q2521
R2539
R2540
R2565
R2566
Q2518
R2554
R2538
C2516
C2520
C2515
D2524
Q2522
R2537
D2526
R2560
R2525
R2571
R2531
Q2513
C2517
C2511
C2512
RM2501
R2542
R2519
D2512
D2530
R2517
R2520
R2561

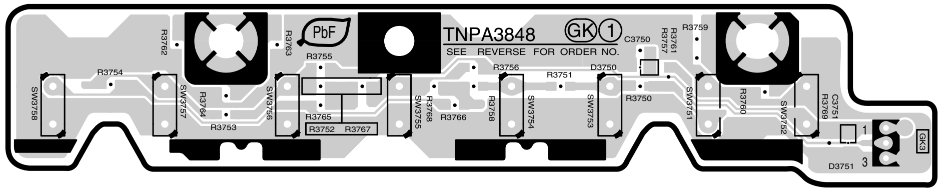
K-BOARD (COMPONENT SIDE)
TXN/K1BJTE (PV60E)
TXN/K1BJTB (PX60B)



TNPA3762
ORDER NO.
K1
Q2511
R2572
R2573
R2557
R2524
C2510
R2512
D2510
D2520
D2525
RM2501
PbF



GK-BOARD (FOIL SIDE)
TXNGK1BJTB



TNPA3848
SEE REVERSE FOR ORDER NO.
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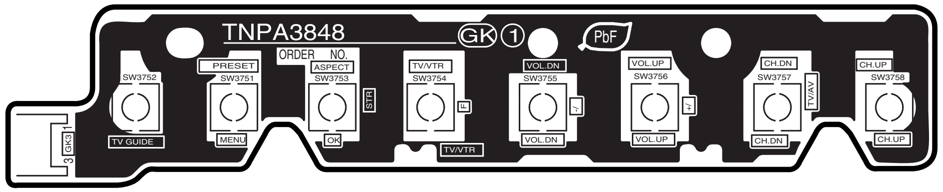
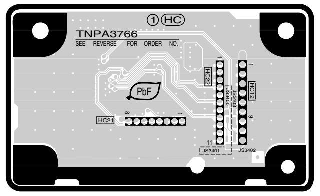
GK3
PbF
R3754
R3753
R3755
R3756
R3751
R3750
R3765
R3752
R3767
R3766
D3750
C3750
R3759
SW3758
SW3757
SW3756
SW3755
SW3754
SW3753
SW3752
SW3751
D3751

GK-BOARD (COMPONENT SIDE)
TXNGK1BJTB



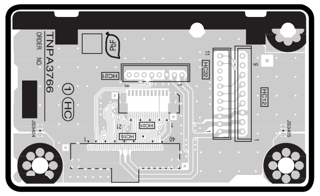
TNPA3848
ORDER NO.
GK1
PbF
GK3
SW3752
TV GUIDE
PRESET
SW3751
MENU
ASPECT
SW3753
OK
TV/VTR
SW3754
TV/VTR
VOL.DN
SW3755
VOL.DN
VOL.UP
SW3756
VOL.UP
CH.DN
SW3757
CH.DN
CH.UP
SW3758
CH.UP

HC-BOARD (FOIL SIDE)
TNPA3766



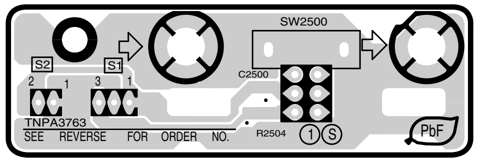
TNPA3766
SEE REVERSE FOR ORDER NO.
1 HC
PbF

HC-BOARD (COMPONENT SIDE)
TNPA3766



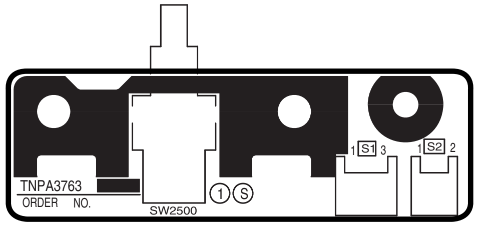
TNPA3766
ORDER NO.
1 HC
PbF

S-BOARD (FOIL SIDE)
TXN/S1BJTB



SW2500
S2
S1
C2500
TNPA3763
SEE REVERSE FOR ORDER NO.
R2504
1 S
PbF

S-BOARD (COMPONENT SIDE)
TXN/S1BJTB



TNPA3763
ORDER NO.
1 S
SW2500
S1
S2

TH-50PV60E, TH-50PX60B
GK-BOARD TXNGK1BJTB
HC-BOARD TNPA3766
S-BOARD TXN/S1BJTB

TH-50PV60E
K-BOARD TXN/K1BJTE

TH-50PX60B
K-BOARD TXN/K1BJTB

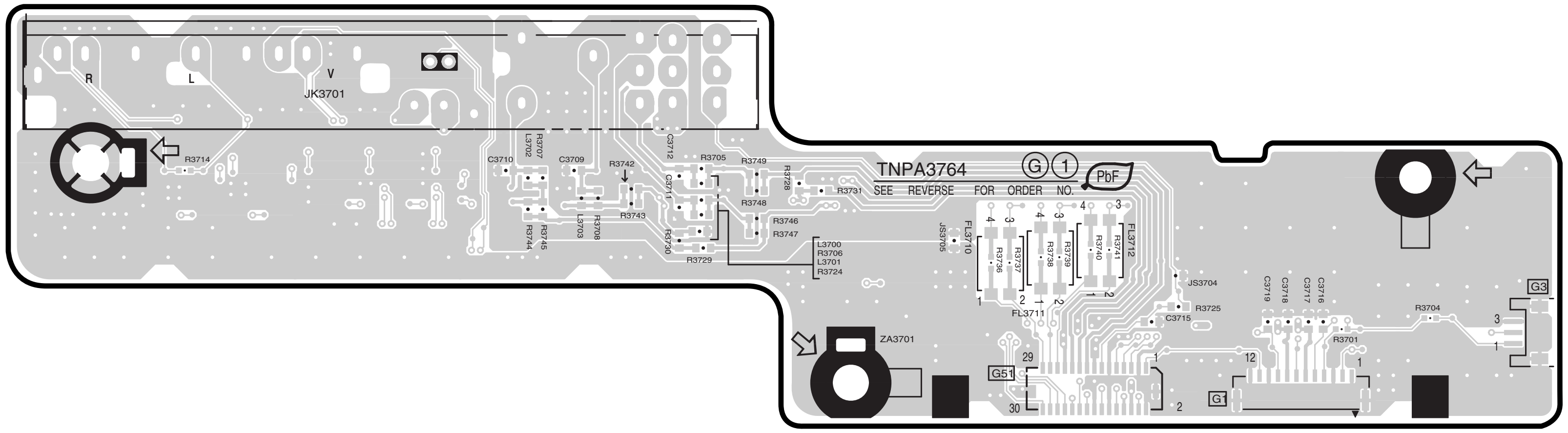
TH-50PV60E, TH-50PX60B
GK-BOARD TXNGK1BJTB
HC-BOARD TNPA3766
S-BOARD TXN/S1BJTB

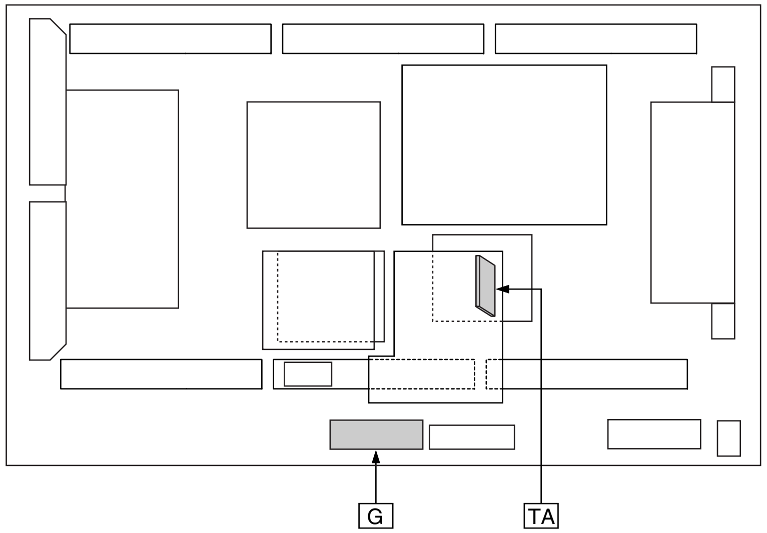
TH-50PV60E
K-BOARD TXN/K1BJTE

TH-50PX60B
K-BOARD TXN/K1BJTB

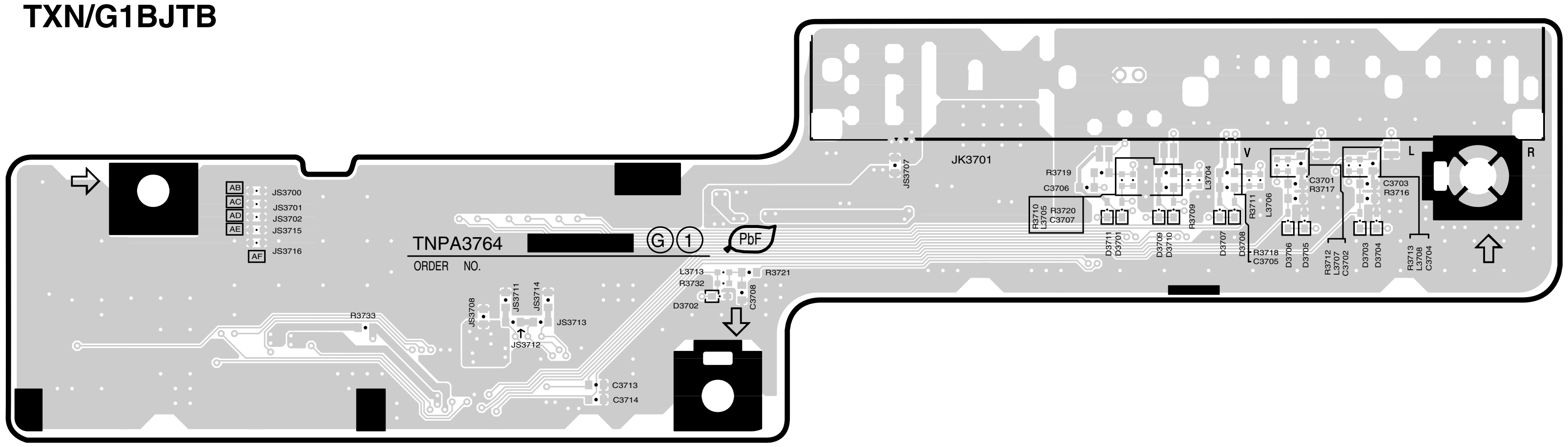
A B C D E F G H I

G-BOARD (FOIL SIDE)
TXN/G1BJTB

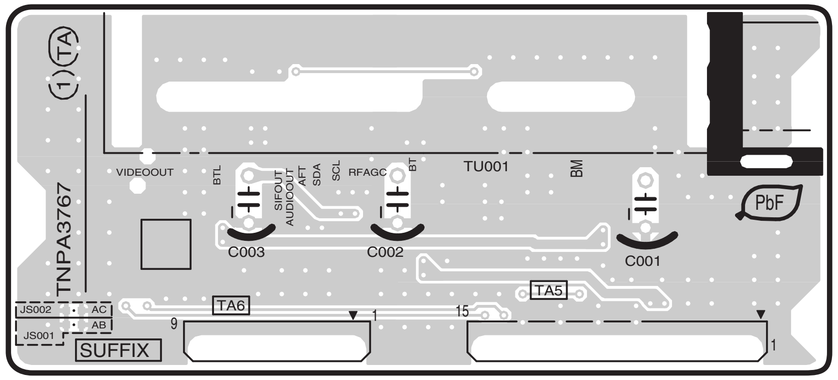

R
L
V
JK3701
R3714
C3710
C3709
R3742
R3743
R3705
R3749
R3748
R3746
R3747
R3729
R3728
R3731
L3700
R3706
L3701
R3724
TNPA3764
G 1
SEE REVERSE FOR ORDER NO.
PbF
FL3710
FL3711
FL3712
JS3705
JS3704
C3715
R3725
R3704
R3701
ZA3701
G51
G1
G3
29
30
12
2
1
3



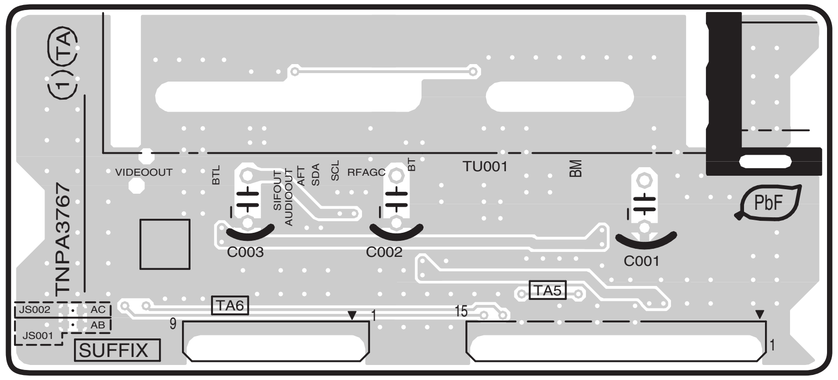
G-BOARD (COMPONENT SIDE)
TXN/G1BJTB


AB
AC
AD
AE
AF
JS3700
JS3701
JS3702
JS3715
JS3716
TNPA3764
ORDER NO.
G 1
PbF
JK3701
JS3707
R3719
C3706
R3710
R3720
C3707
C3701
R3717
C3703
R3716
L
R
V
L3713
R3732
R3721
D3702
C3708
R3733
JS3708
JS3711
JS3714
JS3713
JS3712
C3713
C3714
R3718
C3705

TA-BOARD (FOIL SIDE)
TNPA3767 (PV60E)
TNPA3767AB (PX60B)


1 TA
TNPA3767
VIDEOOUT
BTL
SIFOUT
AUDIOOUT
AFT
SDA
SCL
RFAGC
BT
TU001
BM
PbF
C003
C002
C001
TA6
TA5
9
1
15
1
JS002
JS001
AC
AB
SUFFIX

TA-BOARD (COMPONENT SIDE)
TNPA3767 (PV60E)
TNPA3767AB (PX60B)


1 TA
TNPA3767
VIDEOOUT
BTL
SIFOUT
AUDIOOUT
AFT
SDA
SCL
RFAGC
BT
TU001
BM
PbF
C003
C002
C001
TA6
TA5
9
1
15
1
JS002
JS001
AC
AB
SUFFIX

TH-50PV60E, TH-50PX60B
G-BOARD TXN/G1BJTB

TH-50PV60E
TA-BOARD TNPA3767

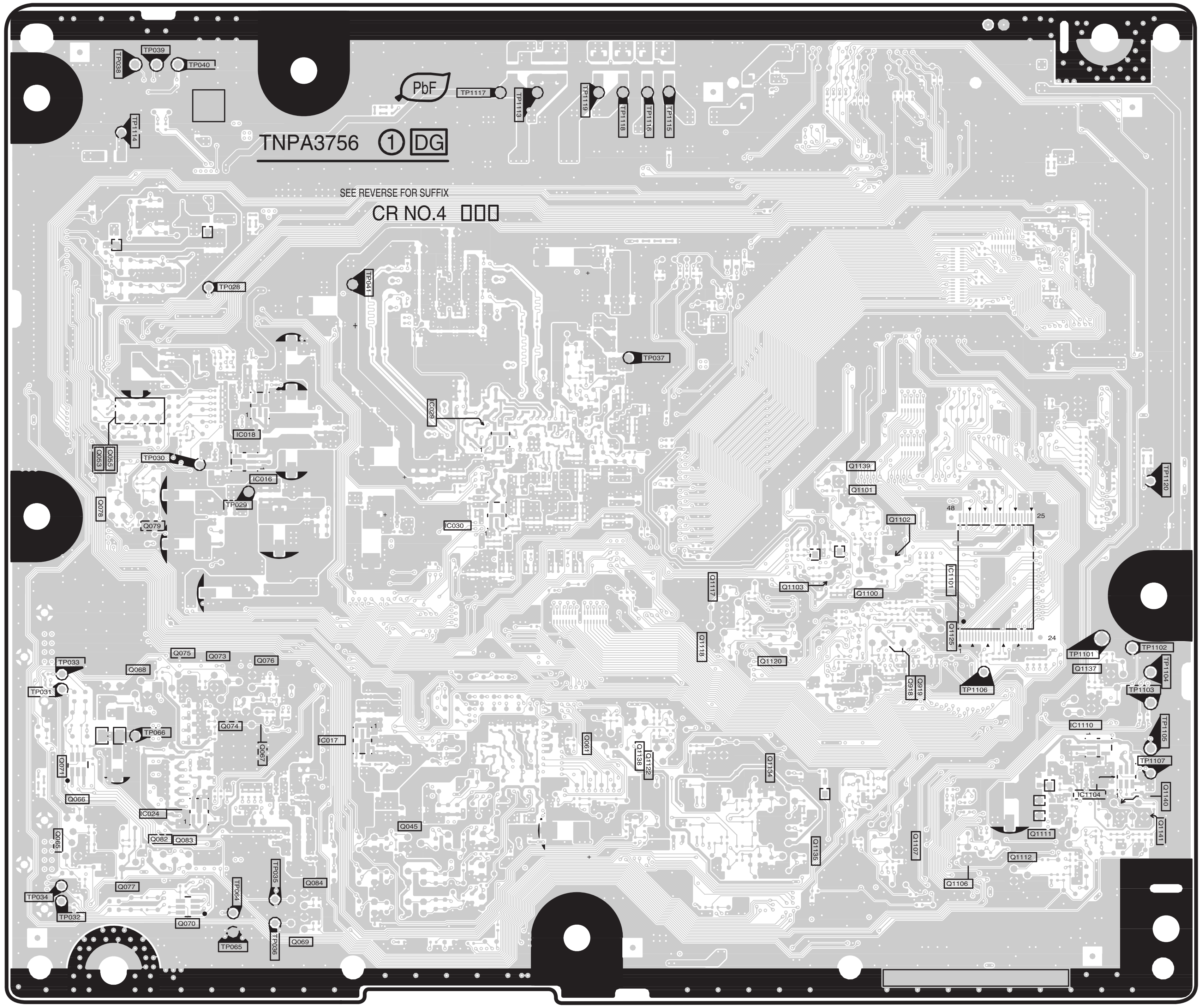
TH-50PX60B
TA-BOARD TNPA3767AB

TH-50PV60E, TH-50PX60B
G-BOARD TXN/G1BJTB

TH-50PV60E
TA-BOARD TNPA3767

TH-50PX60B
TA-BOARD TNPA3767AB

DG-BOARD (FOIL SIDE)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPA3756 ① DG
PbF
SEE REVERSE FOR SUFFIX
CR NO.4
TP038
TP039
TP040
TP1114
TP1117
TP1113
TP1119
TP1118
TP1116
TP1115
TP028
TP041
TP037
IC029
IC018
Q053
Q055
TP030
IC016
TP029
Q078
Q079
IC030
Q1139
Q1101
Q1102
TP1120
Q1117
Q1103
Q1100
IC1101
Q1118
Q1125
Q1120
Q918
Q919
TP1106
TP1101
TP1102
Q1137
TP1104
TP1103
TP033
Q068
Q075
Q073
Q076
TP031
TP066
Q074
IC017
Q067
Q071
Q061
Q1138
Q1122
Q1134
IC1110
TP1105
TP1107
Q1140
IC1104
Q1141
Q066
IC024
Q082
Q083
Q045
Q065
Q1111
Q1112
Q1107
Q1135
Q1106
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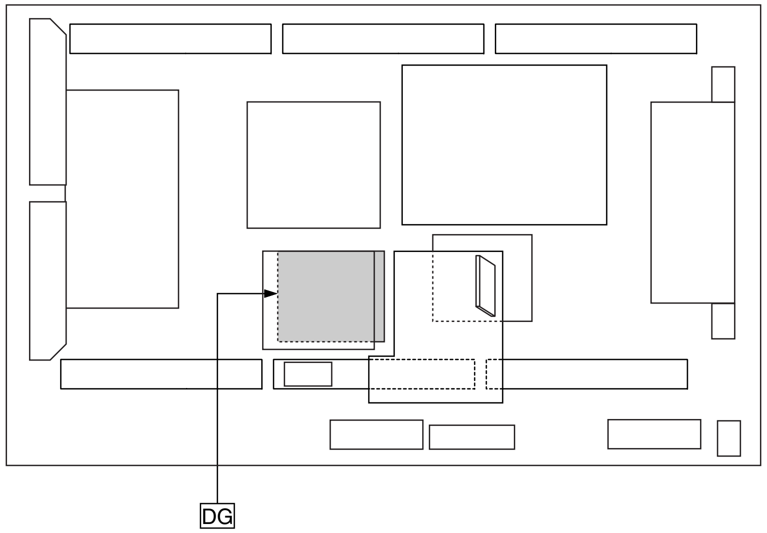
TP065
TP036
Q069
48
25
24



Parts Location

DG-BOARD (FOIL SIDE)					
IC		Q4045	C-2	**TP**	
IC1101	E-3	Q4053	A-3	TP1101	F-3
IC1104	F-2	Q4055	A-3	TP1102	F-3
IC1110	F-2	Q4061	D-2	TP1103	F-2
IC4016	B-3	Q4065	A-2	TP1104	F-2
IC4017	B-2	Q4066	A-2	TP1105	F-2
IC4018	B-4	Q4067	B-2	TP1106	F-2
IC4024	B-2	Q4068	B-2	TP1107	F-2
IC4029	C-4	Q4069	B-1	TP1113	C-5
IC4030	C-3	Q4070	B-1	TP1114	B-5
TRANSISTOR		Q4071	A-2	TP1115	D-5
Q1100	E-3	Q4073	B-3	TP1116	D-5
Q1101	E-3	Q4074	B-2	TP1117	C-5
Q1102	E-3	Q4075	B-3	TP1118	D-5
Q1103	E-3	Q4076	B-3	TP1119	D-5
Q1106	E-1	Q4077	B-1	TP1120	F-3
Q1107	E-2	Q4078	A-3	TP4028	B-4
Q1111	F-2	Q4079	B-3	TP4029	B-3
Q1112	F-2	Q4082	B-2	TP4030	B-3
Q1117	D-3	Q4083	B-2	TP4031	A-2
Q1118	D-3	Q4084	B-1	TP4032	A-4
Q1120	E-3	Q4918	E-2	TP4033	A-3
Q1122	D-2	Q4919	E-2	TP4034	A-1
Q1125	E-3			TP4035	B-1
Q1134	E-2			TP4036	B-1
Q1135	E-2			TP4037	D-4
Q1137	F-2			TP4038	B-5
Q1138	D-2			TP4039	B-5
Q1139	E-3			TP4040	B-5
Q1140	F-2			TP4041	C-4
Q1141	F-2			TP4064	B-1
				TP4065	B-1
				TP4066	B-2

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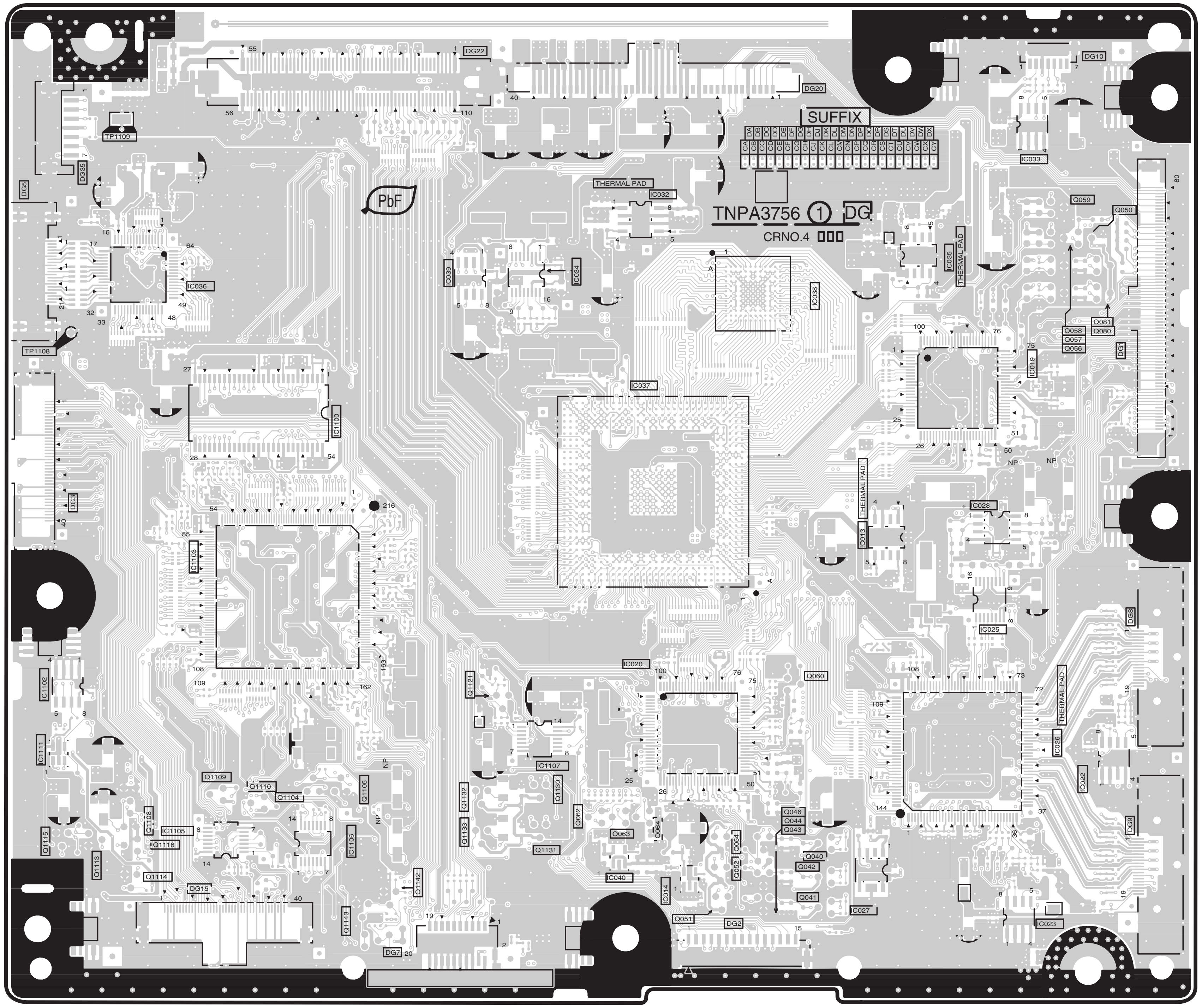
DG-BOARD (COMPONENT SIDE)
TNPA3756CB (PV60E)
TNPA3756CH (PX60B)


SUFFIX
TNPA3756 ① DG
CRNO.4
PbF
THERMAL PAD
TP1109
TP1108
DG5
DG35
DG3
DG22
DG20
DG10
DG15
DG7
DG2
DG6
DG8
DG9
IC036
IC032
IC039
IC034
IC038
IC037
IC033
IC035
IC019
IC028
IC013
IC025
IC026
IC022
IC023
IC027
IC020
IC040
IC014
IC1100
IC1103
IC1102
IC1111
IC1105
IC1106
IC1107
Q059
Q050
Q058
Q057
Q056
Q081
Q080
Q060
Q063
Q062
Q064
Q054
Q052
Q046
Q044
Q043
Q040
Q042
Q041
Q051
Q1109
Q1110
Q1104
Q1105
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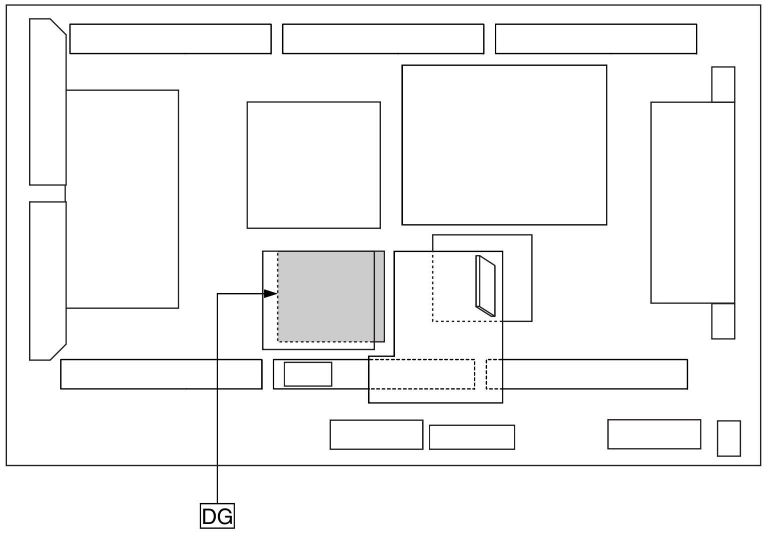
Q1130
Q1131
Q1142
Q1143



Parts Location

DG-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		Q4056	F-4
IC1100	C-4	Q1104	B-2	Q4057	F-4
IC1102	A-2	Q1105	C-2	Q4058	F-4
IC1103	B-3	Q1108	B-2	Q4059	F-5
IC1105	B-2	Q1109	B-2	Q4060	E-2
IC1106	C-2	Q1110	B-2	Q4062	D-2
IC1107	D-2	Q1113	A-2	Q4063	D-2
IC1111	A-2	Q1114	B-2	Q4064	D-2
IC4013	E-3	Q1115	A-2	Q4080	F-4
IC4014	D-1	Q1116	B-2	Q4081	F-4
IC4019	F-4	Q1121	C-2	**TP**	
IC4020	D-3	Q1130	D-2	TP1108	A-4
IC4022	F-2	Q1131	D-2	TP1109	A-5
IC4023	F-1	Q1132	C-2		
IC4025	F-3	Q1133	C-2		
IC4026	F-2	Q1142	C-1		
IC4027	E-1	Q1143	C-1		
IC4028	F-3	Q4040	E-2		
IC4032	D-5	Q4041	E-1		
IC4033	F-5	Q4042	E-2		
IC4034	D-4	Q4043	E-2		
IC4035	E-4	Q4044	E-2		
IC4036	B-4	Q4046	E-2		
IC4037	D-4	Q4050	F-5		
IC4038	E-4	Q4051	D-1		
IC4039	C-4	Q4052	D-2		
IC4040	D-2	Q4054	D-2		

TH-50PV60
DG-BOARD TNPA3756CB

TH-50PX60B
DG-BOARD TNPA3756CH

TH-50PV60E
DG-BOARD TNPA3756CB

TH-50PX60B
DG-BOARD TNPA3756CH

A B C D E F G H I

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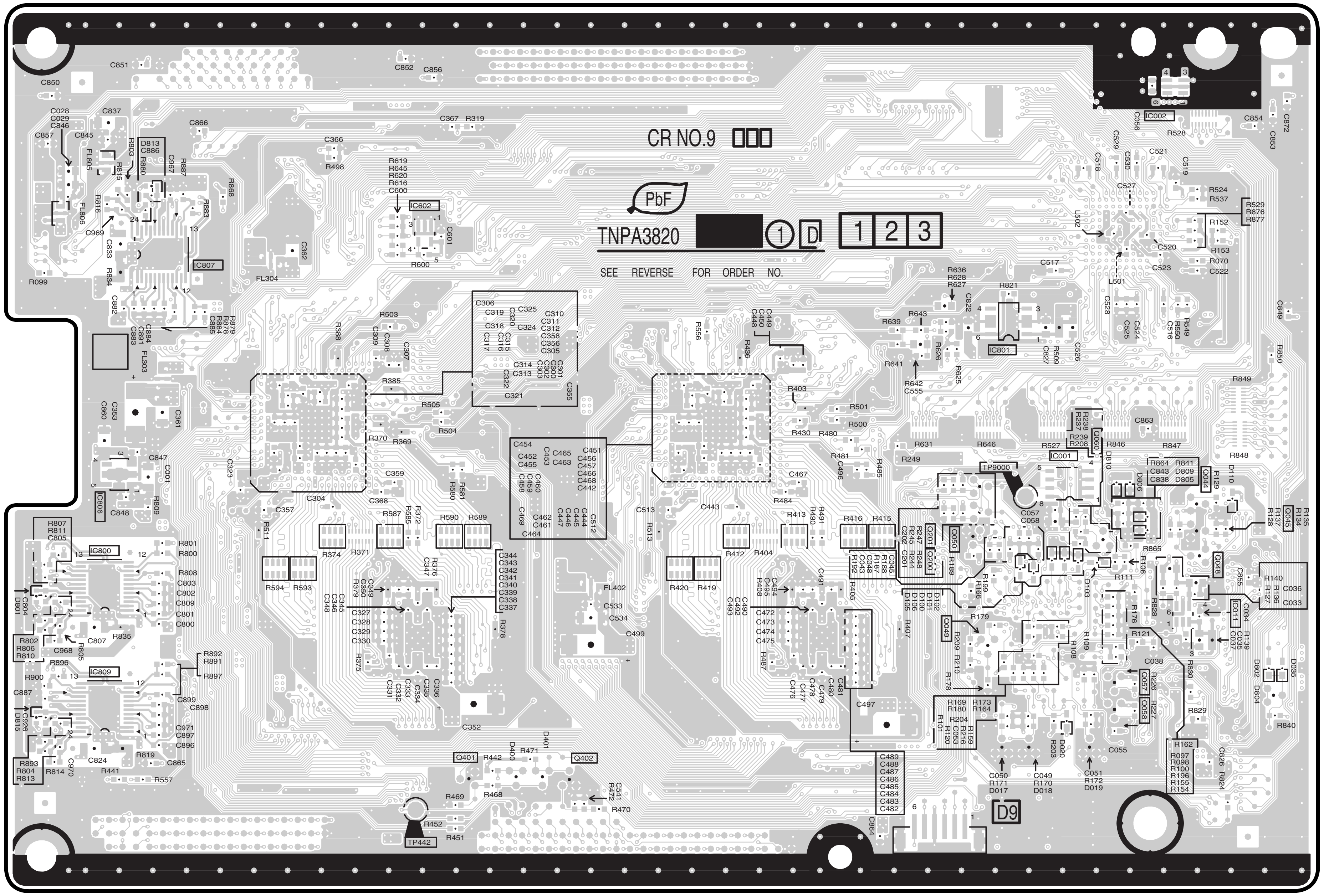
D-BOARD (FOIL SIDE)
TZTNP01BETB


CR NO.9
PbF
TNPA3820
1
D
1 2 3
SEE REVERSE FOR ORDER NO.
D9
TP442
TP9000
IC800
IC807
IC809
IC806
IC602
IC801
IC001
IC002
Q401
Q402
Q049
Q050
Q048
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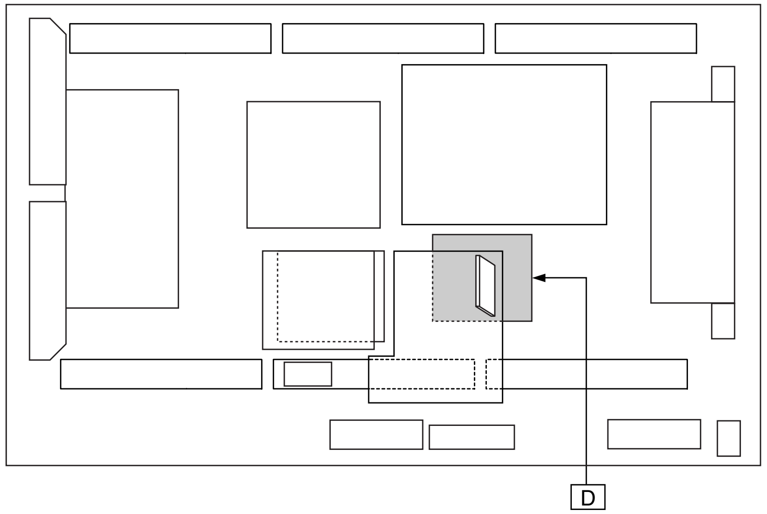
Q058
Q060
Q801
Q200
Q201

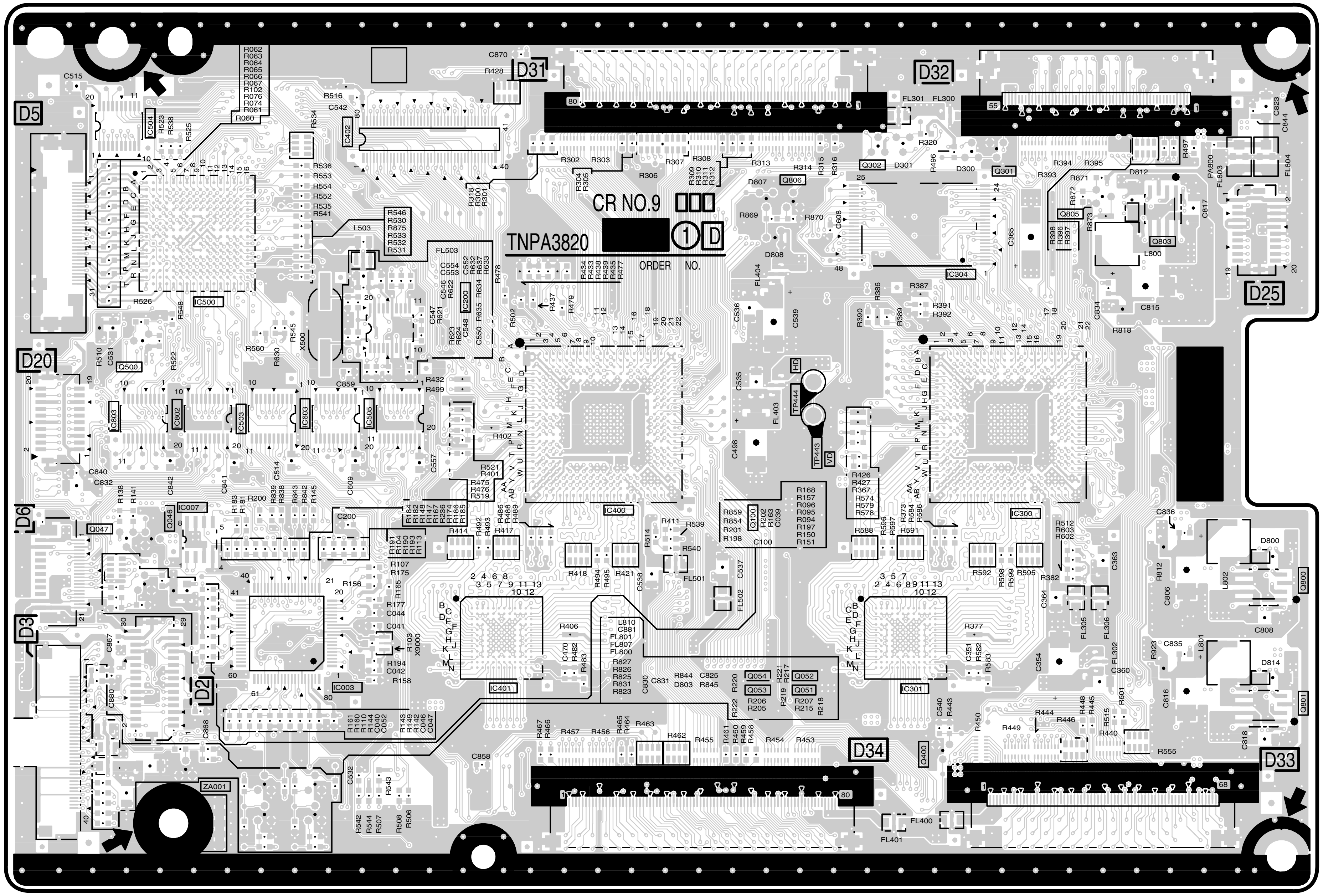


Parts Location

D-BOARD(FOIL SIDE)			
IC		Q9200	E-3
IC9001	F-3	Q9201	E-3
IC9002	F-5	Q9400	E-2
IC9011	G-2	Q9401	C-2
IC9602	C-4	Q9402	D-2
IC9800	A-3	Q9500	A-3
IC9801	E-4	Q9800	G-2
IC9806	A-3	Q9801	G-2
IC9807	B-4	Q9803	F-4
IC9809	A-2	Q9805	F-4
		Q9806	E-4
TRANSISTOR		TP	
Q9044	F-3	TP442	C-1
Q9045	G-3	TP9000	E-3
Q9048	F-3		
Q9049	E-2		
Q9050	E-3		
Q9057	F-2		
Q9058	F-2		
Q9060	F-3		

A B C D E F G H I

D-BOARD (FOIL SIDE)
TZTNP01BETB


D5
D20
D6
D3
D2
D31
D32
D25
D34
D33
CR NO.9
TNPA3820
① D
ORDER NO.
IC500
IC400
IC300
IC304
IC401
IC301
IC003
IC007
Q047
Q500
TP444
TP443
ZA001
A
B
C
D
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I
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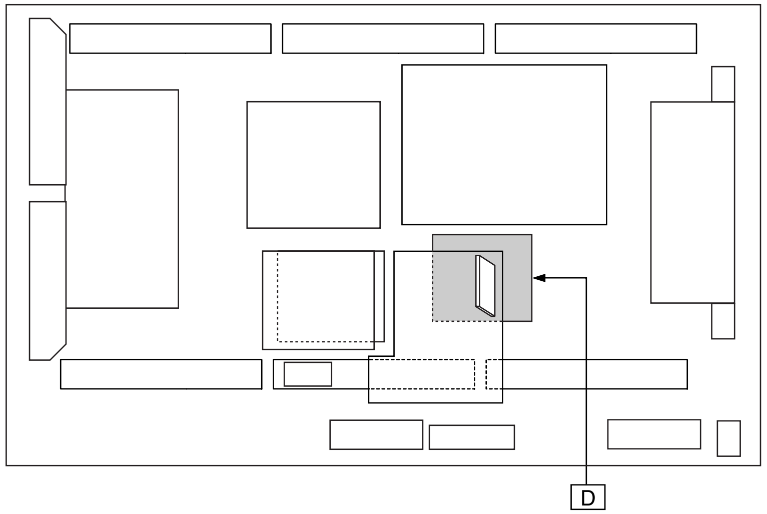
6



Parts Location

D-BOARD(COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC9003	B-2	Q9046	B-3
IC9007	B-3	Q9047	A-3
IC9200	C-4	Q9051	E-2
IC9300	F-3	Q9052	E-2
IC9301	E-2	Q9053	D-2
IC9304	E-4	Q9054	D-2
IC9400	D-3	Q9100	D-3
IC9401	C-2	Q9301	E-4
IC9402	B-4	Q9302	E-4
IC9500	B-4	**TP**	
IC9503	B-3	TP443	E-3
IC9504	B-5	TP444	E-3
IC9505	C-3		
IC9603	B-3		
IC9802	B-3		
IC9803	A-3		

6

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4

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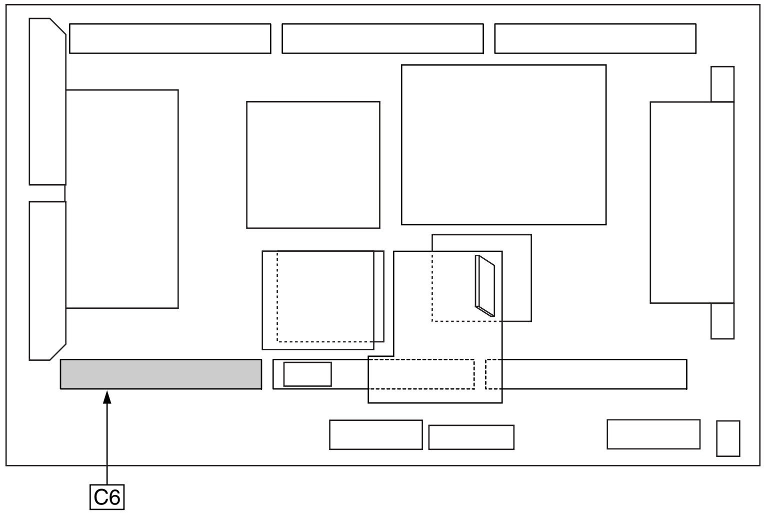
2

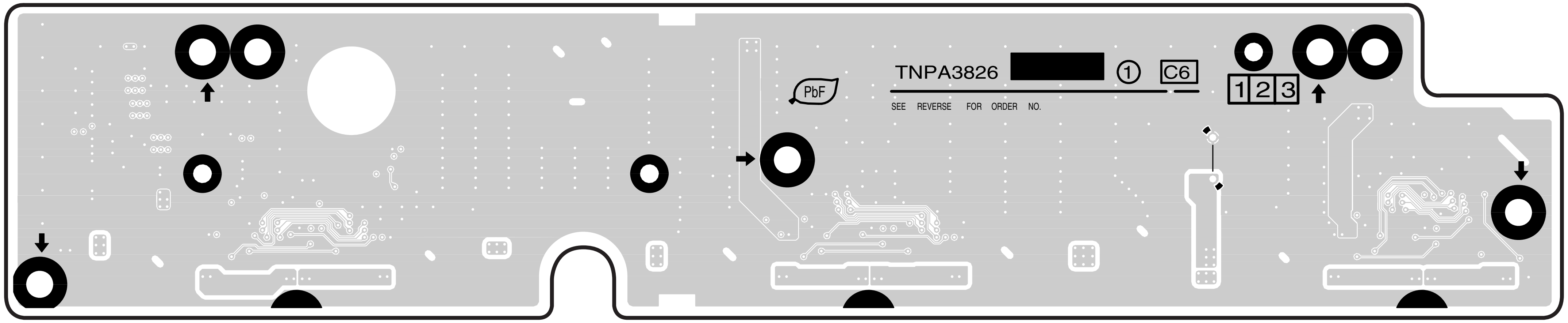
1

Parts Location

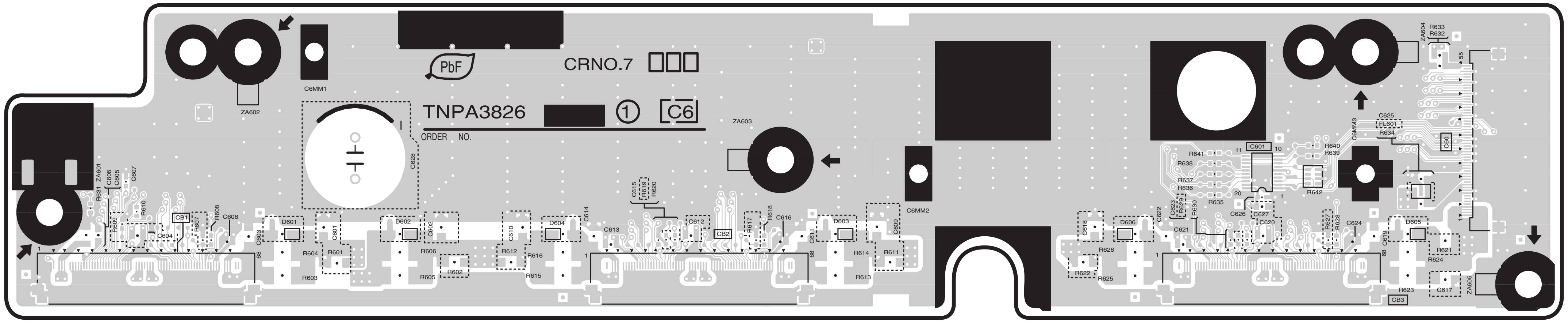
C6-BOARD	
IC	
IC7601	G-2



C6-BOARD (FOIL SIDE)
TXNC61BETB


TNPA3826
①
C6
SEE REVERSE FOR ORDER NO.
PbF
1 2 3

C6-BOARD (COMPONENT SIDE)
TXNC61BETB


CRNO.7
TNPA3826
①
C6
ORDER NO.
PbF
C6MM1
ZA602
C628
ZA603
C6MM2
C6MM3
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R631
C606
C605
C607
R610
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C604
CB1
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C603
D601
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C602
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D604
C614
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R601
R603
R606
R605
R602
R612
R616
R615
C613
C615
R619
R620
C612
CB2
R617
R618
C616
C611
D603
C609
R614
R611
R613
C618
D606
R626
R622
R625
C622
C623
R629
R630
C621
C626
C627
C620
R627
R628
C624
C619
D605
R621
R624
R623
C617
CB3
ZA605
ZA604
R633
R632
55
C625
FL601
R634
C60
IC601
11
10
20
1
R641
R638
R637
R636
R635
R640
R639
R642
68

A B C D E F G H I

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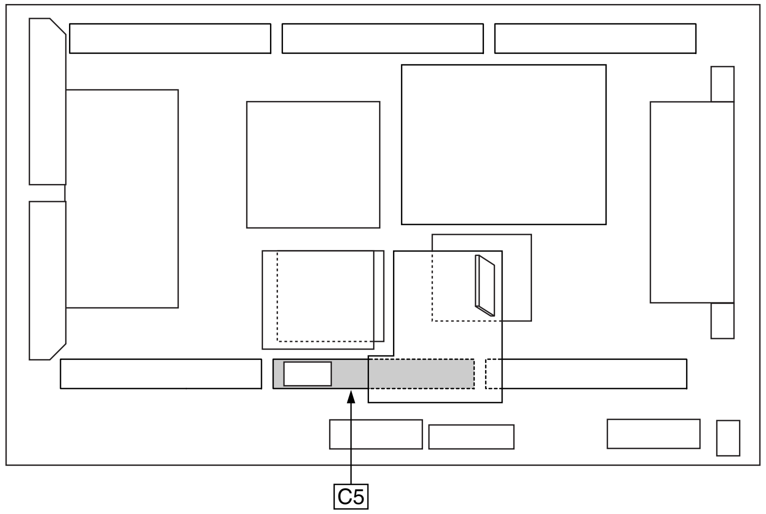
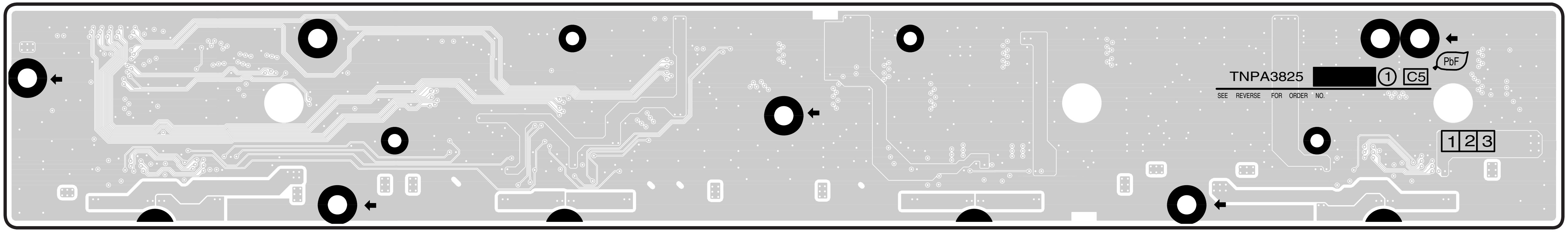
C5-BOARD

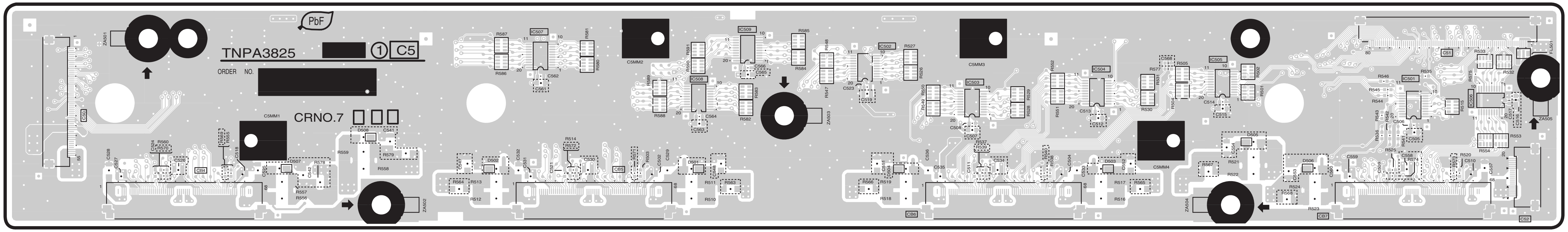
IC	
IC7501	H-1
IC7502	E-2
IC7503	F-2
IC7504	G-2
IC7505	G-2
IC7506	I-2
IC7507	D-2
IC7508	D-2
IC7509	E-2



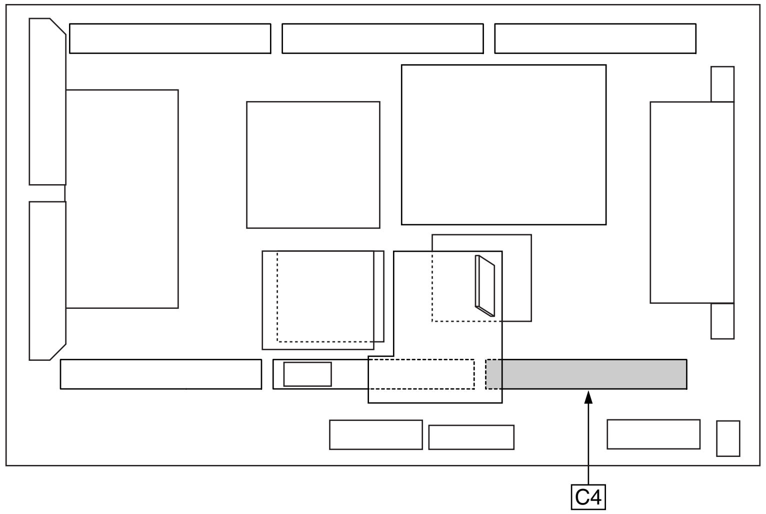
C5-BOARD (FOIL SIDE)
TXNC51BETB


TNPA3825
①
C5
PbF
SEE REVERSE FOR ORDER NO.
1 2 3

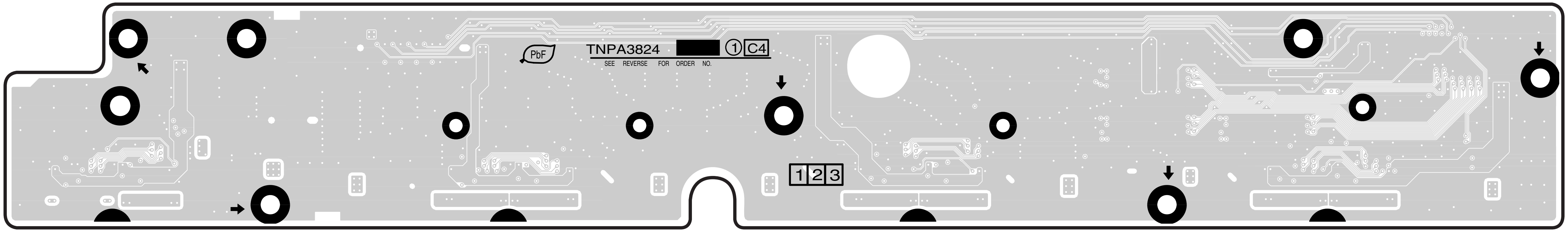
C5-BOARD (COMPONENT SIDE)
TXNC51BETB


PbF
TNPA3825
①
C5
ORDER NO.
CRNO.7
C5MM1
C5MM2
C5MM3
C5MM4
IC507
IC509
IC508
IC502
IC503
IC504
IC505
IC501
ZA501
ZA502
ZA503
ZA504
ZA505

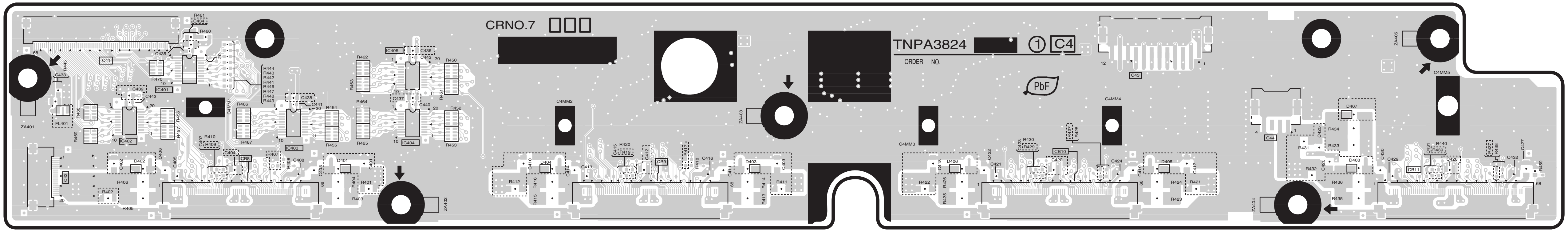
C4-BOARD	
IC	
IC7401	B-2
IC7402	A-2
IC7403	B-2
IC7404	C-2
IC7405	C-2



C4-BOARD (FOIL SIDE)
TXNC41BETB


PbF
TNPA3824
① C4
SEE REVERSE FOR ORDER NO.
1 2 3

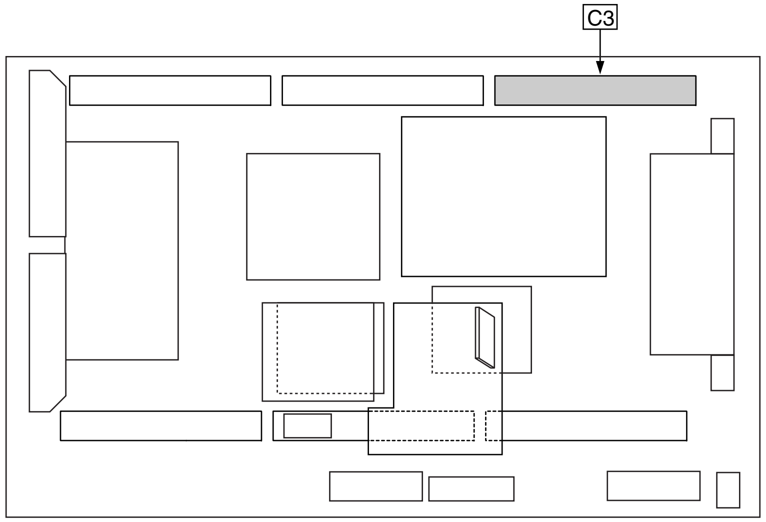
C4-BOARD (COMPONENT SIDE)
TXNC41BETB


CRNO.7
TNPA3824
① C4
ORDER NO.
PbF
ZA401
ZA402
ZA403
ZA404
ZA405
C4MM1
C4MM2
C4MM3
C4MM4
C4MM5
FL401

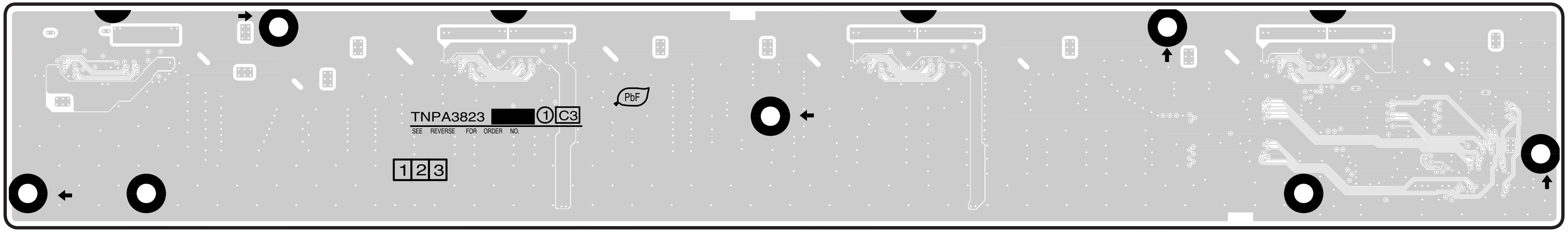
TH-50PV60E, TH-50PX60B
C4-BOARD TXNC41BETB

C3-BOARD

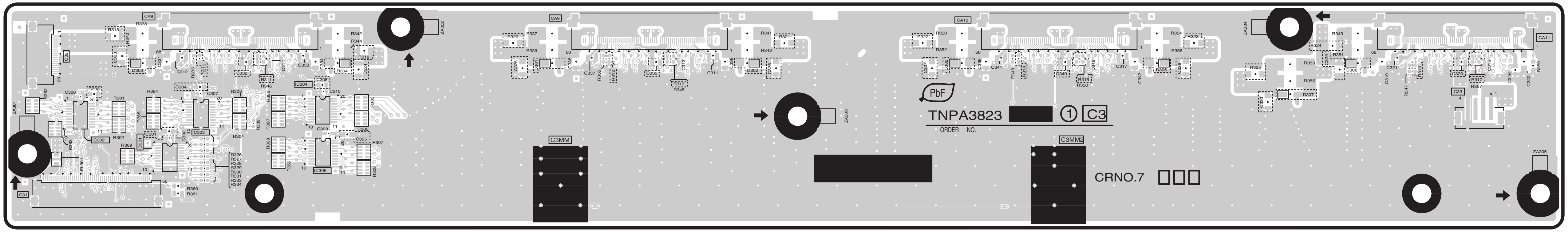
IC	
IC7301	B-1
IC7302	A-2
IC7303	B-2
IC7304	B-2
IC7305	B-1



C3-BOARD (FOIL SIDE)
TXNC31BETB


TNPA3823
①
C3
SEE REVERSE FOR ORDER NO.
PbF
1
2
3

C3-BOARD (COMPONENT SIDE)
TXNC31BETB


CA8
CA9
CA10
CA11
ZA301
ZA302
ZA303
ZA304
ZA305
IC302
IC303
IC304
IC305
C3MM1
C3MM2
TNPA3823
①
C3
ORDER NO.
PbF
CRNO.7

6

5

4

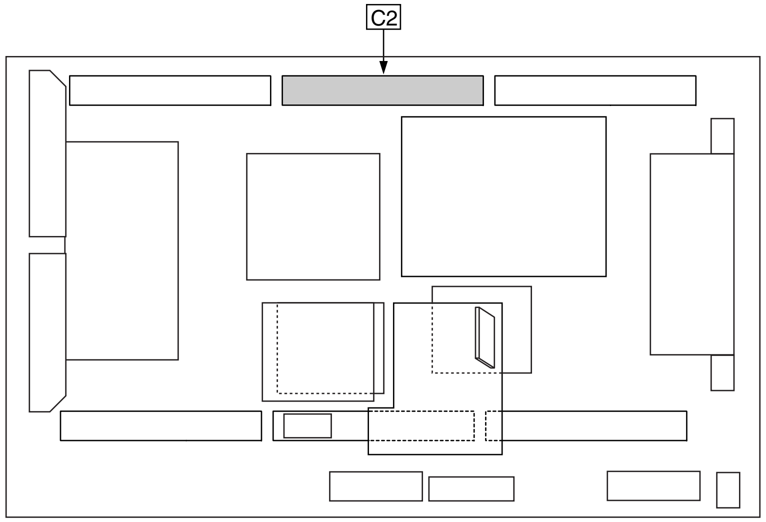
3

2

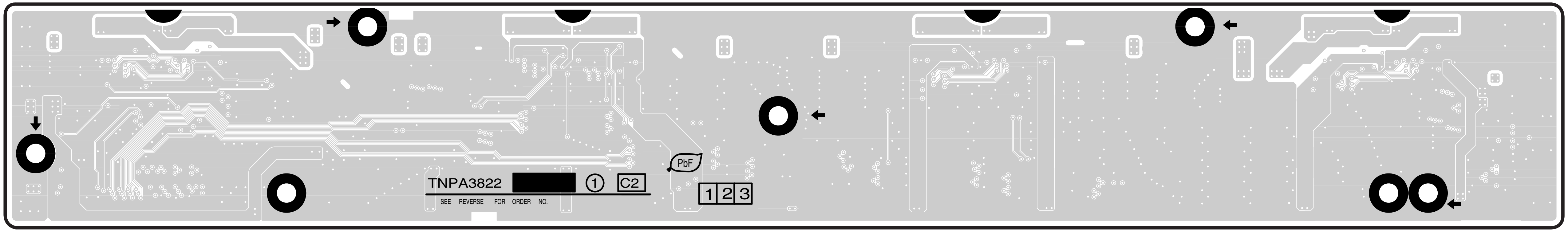
1

Parts Location

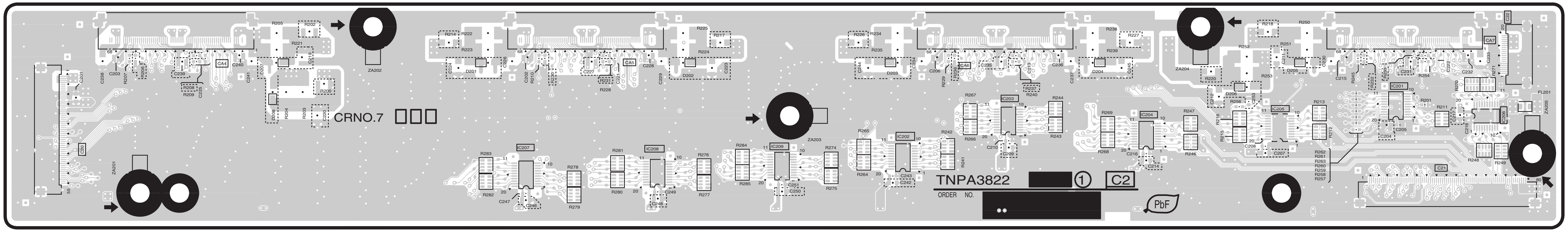
C2-BOARD	
IC	
IC7201	H-1
IC7202	F-1
IC7203	F-2
IC7204	G-2
IC7205	H-2
IC7206	I-2
IC7207	D-1
IC7208	D-1
IC7209	E-1



C2-BOARD (FOIL SIDE)
TXNC21BETB


TNPA3822
①
C2
SEE REVERSE FOR ORDER NO.
PbF
1 2 3

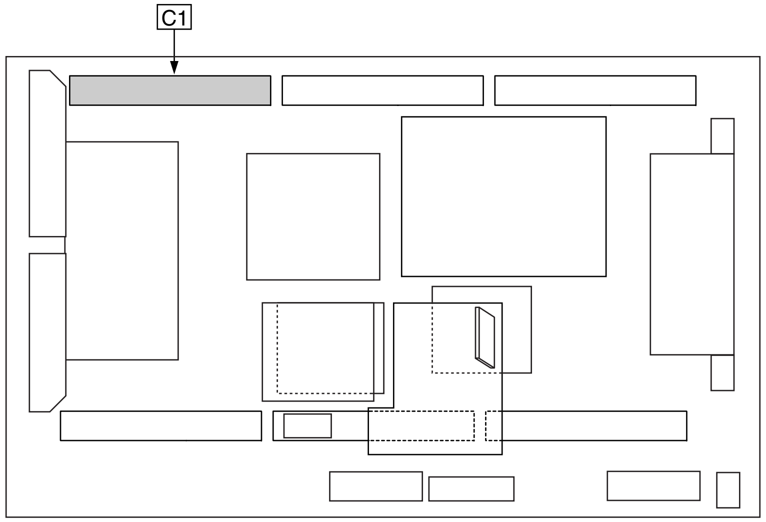
C2-BOARD (COMPONENT SIDE)
TXNC21BETB


CRNO.7
ZA201
ZA202
ZA203
ZA204
IC201
IC202
IC203
IC204
IC205
IC207
IC208
IC209
TNPA3822
①
C2
ORDER NO.
PbF

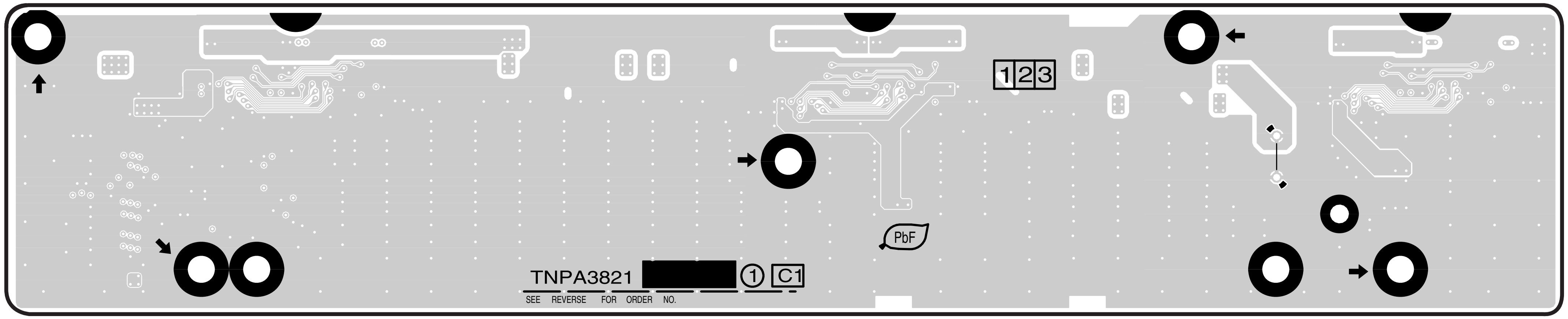
A B C D E F G H I

Parts Location

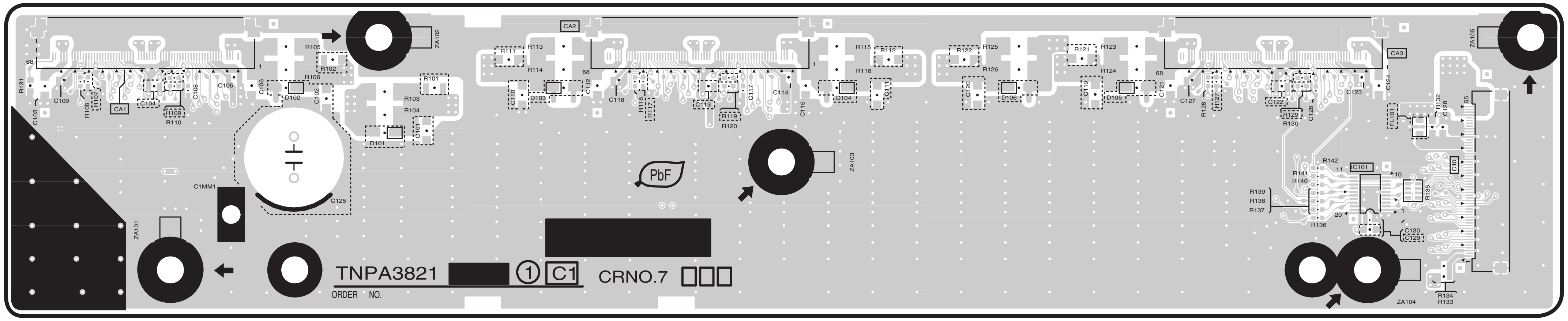
C1-BOARD	
IC	
IC7101	G-1

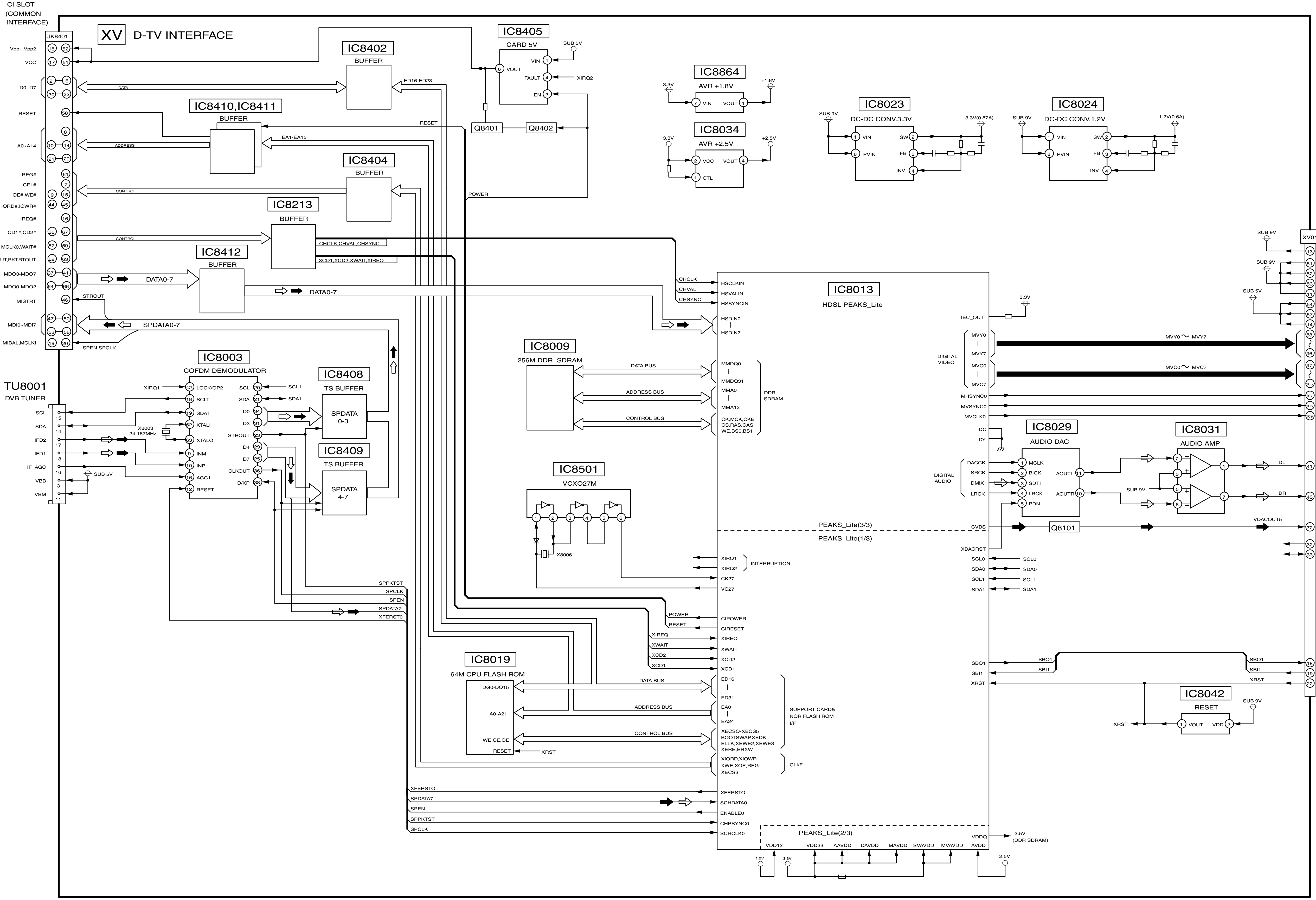


C1-BOARD (FOIL SIDE)
TXNC11BETB


123
PbF
TNPA3821
① C1
SEE REVERSE FOR ORDER NO.

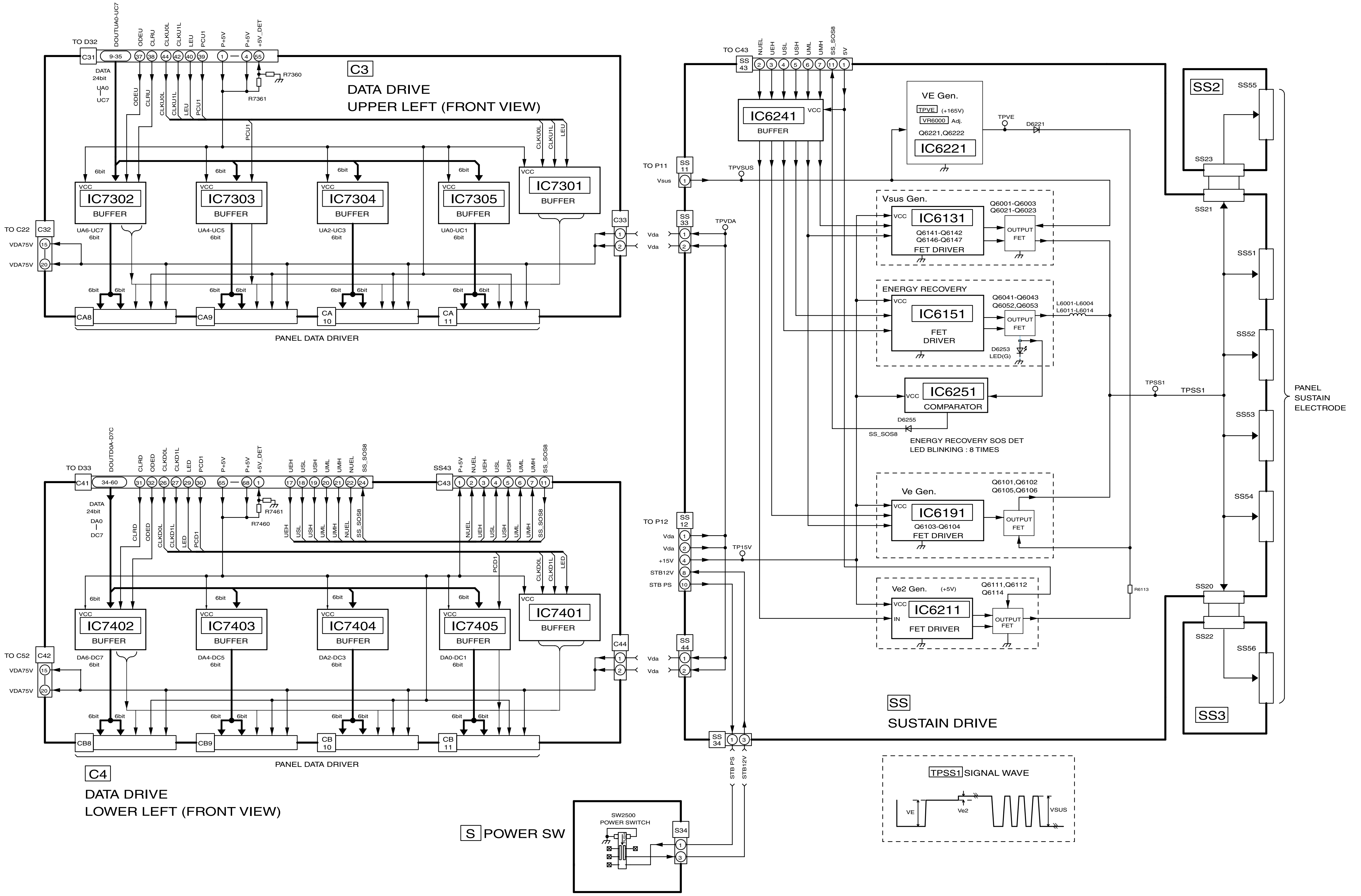
C1-BOARD (COMPONENT SIDE)
TXNC11BETB

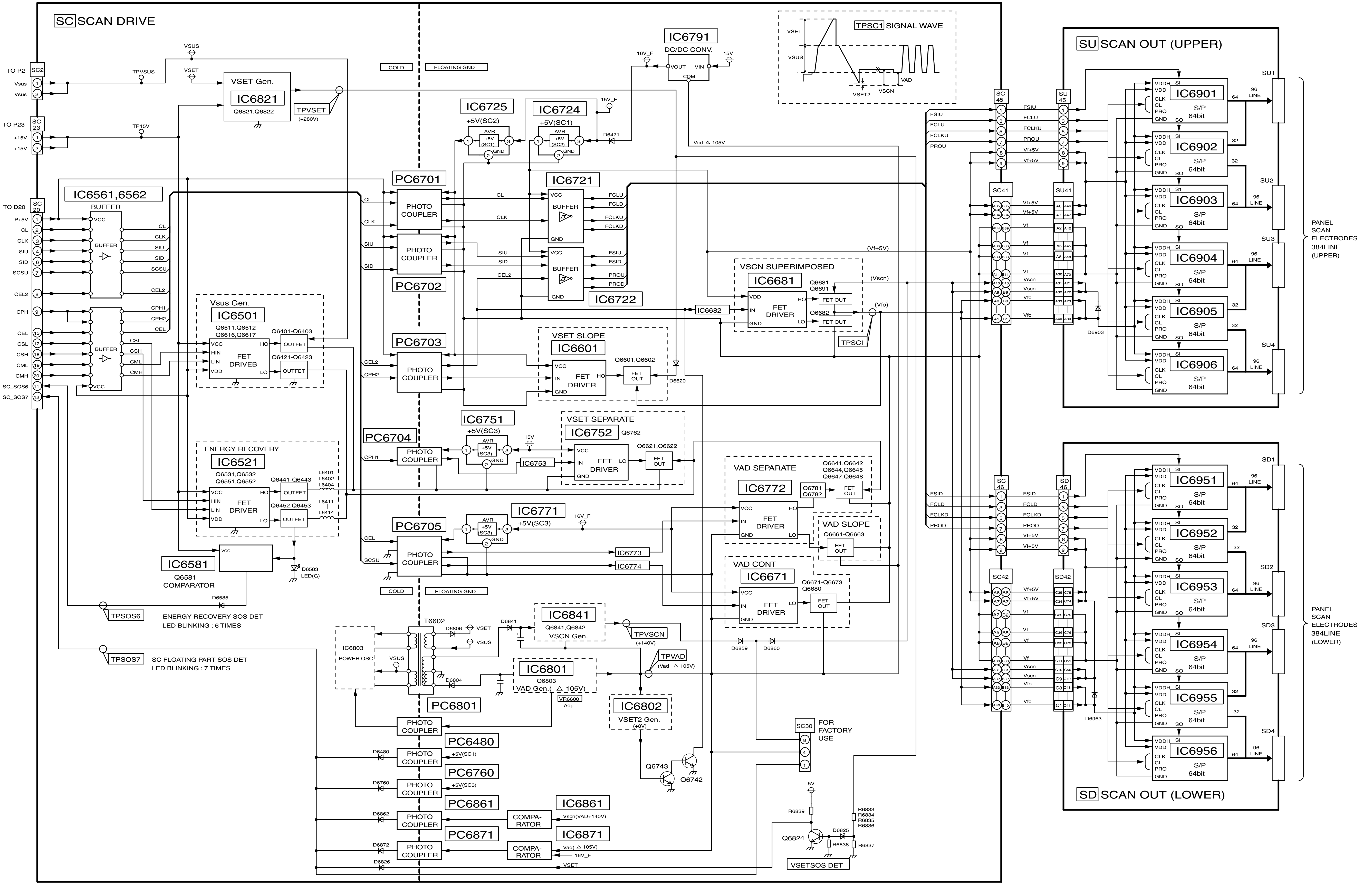

ZA102
ZA103
ZA104
ZA105
ZA101
CA1
CA2
CA3
C1MM1
C125
IC101
R101
R102
R103
R104
R105
R106
D101
D102
D103
D104
D105
D106
C102
C103
C104
C105
C106
C108
C109
C112
C113
C114
C115
C117
C118
C121
C122
C123
C124
C126
C127
C128
C129
C130
R108
R109
R110
R111
R113
R114
R115
R116
R118
R119
R120
R121
R122
R123
R124
R125
R126
R128
R130
R131
R132
R133
R134
R135
R136
R137
R138
R139
R140
R141
R142
PbF
TNPA3821
① C1
ORDER NO.
CRNO.7


CI SLOT
(COMMON
INTERFACE)
JK8401
XV
D-TV INTERFACE
Vpp1,Vpp2
VCC
D0~D7
RESET
A0~A14
REG#
CE1#
OE#,WE#
IORD#,IOWR#
IREQ#
CD1#,CD2#
MCLK0,WAIT#
ENOUT,PKTRTOUT
MDO3-MDO7
MDO0-MDO2
MISTRT
MDI0~MDI7
MIBAL,MCLKI
DATA
ADDRESS
CONTROL
STROUT
DATA0-7
SPDATA0-7
SPEN,SPCLK
IC8402
BUFFER
ED16-ED23
IC8410,IC8411
BUFFER
EA1-EA15
RESET
IC8404
BUFFER
IC8213
BUFFER
CHCLK,CHVAL,CHSYNC
XCD1,XCD2,XWAIT,XIREQ
IC8412
BUFFER
IC8405
CARD 5V
SUB 5V
VIN
VOUT
FAULT
XIRQ2
EN
Q8401
Q8402
POWER
IC8864
AVR +1.8V
3.3V
+1.8V
VIN
VOUT
IC8034
AVR +2.5V
+2.5V
VCC
CTL
IC8023
DC-DC CONV.3.3V
SUB 9V
3.3V(0.87A)
VIN
PVIN
SW
FB
INV
IC8024
DC-DC CONV.1.2V
1.2V(0.6A)
XV01
TO DG22
SUB 9V
SUB 5V
MVY0
MVY7
MVC0
MVC7
MHSYNC0
MVSYNC0
MVCLK0
DL(BS_L)
DR(BS_R)
CVBS
SCL0
SDA0
SBO1(SBI1)
SBI1(SBO1)
XRST
IC8013
HDSL PEAKS_Lite
CHCLK
CHVAL
CHSYNC
HSCLKIN
HSVALIN
HSSYNCIN
HSDIN0
HSDIN7
IEC_OUT
DIGITAL VIDEO
MVY0~MVY7
MVC0~MVC7
DC
DY
DIGITAL AUDIO
DACCK
SRCK
DMIX
LRCK
IC8029
AUDIO DAC
MCLK
BICK
SDTI
LRCK
PDN
AOUTL
AOUTR
IC8031
AUDIO AMP
DL
DR
SUB 9V
VDACOUT5
Q8101
PEAKS_Lite(3/3)
PEAKS_Lite(1/3)
XDACRST
SCL0
SDA0
SCL1
SDA1
SBO1
SBI1
XRST
IC8042
RESET
VOUT
VDD
IC8009
256M DDR_SDRAM
DATA BUS
ADDRESS BUS
CONTROL BUS
MMDQ0
MMDQ31
MMA0
MMA13
CK,MCK,CKE
CS,RAS,CAS
WE,BS0,BS1
DDR-SDRAM
IC8501
VCXO27M
X8006
XIRQ1
XIRQ2
INTERRUPTION
CK27
VC27
POWER
RESET
CIPOWER
CIRESET
XIREQ
XWAIT
XCD2
XCD1
IC8019
64M CPU FLASH ROM
DG0-DQ15
A0-A21
WE,CE,OE
RESET
XRST
ED16
ED31
EA0
EA24
XECS0-XECS5
BOOTSWAP,XEDK
ELLK,XEWE2,XEWE3
XERE,ERXW
SUPPORT CARD&
NOR FLASH ROM
I/F
XIORD,XIOWR
XWE,XOE,REG
XECS3
CI I/F
XFERSTO
SCHDATA0
ENABLE0
CHPSYNC0
SCHCLK0
SPPKTST
SPCLK
SPEN
SPDATA7
XFERST0
PEAKS_Lite(2/3)
VDD12
VDD33
AAVDD
DAVDD
MAVDD
SVAVDD
MVAVDD
AVDD
VDDQ
2.5V
(DDR SDRAM)
1.2V
3.3V
TU8001
DVB TUNER
SCL
SDA
IFD2
IFD1
IF_AGC
VBB
VBM
SUB 5V
IC8003
COFDM DEMODULATOR
XIRQ1
LOCK/OP2
SCLT
SDAT
XTALI
XTALO
INM
INP
AGC1
RESET
X8003
24.167MHz
SCL
SDA
SCL1
SDA1
D0
D3
STROUT
D4
D7
CLKOUT
D/XP
IC8408
TS BUFFER
SPDATA
0-3
IC8409
TS BUFFER
SPDATA
4-7

TH-50PV60E, TH-50PX60B
XV-Board Block Diagram

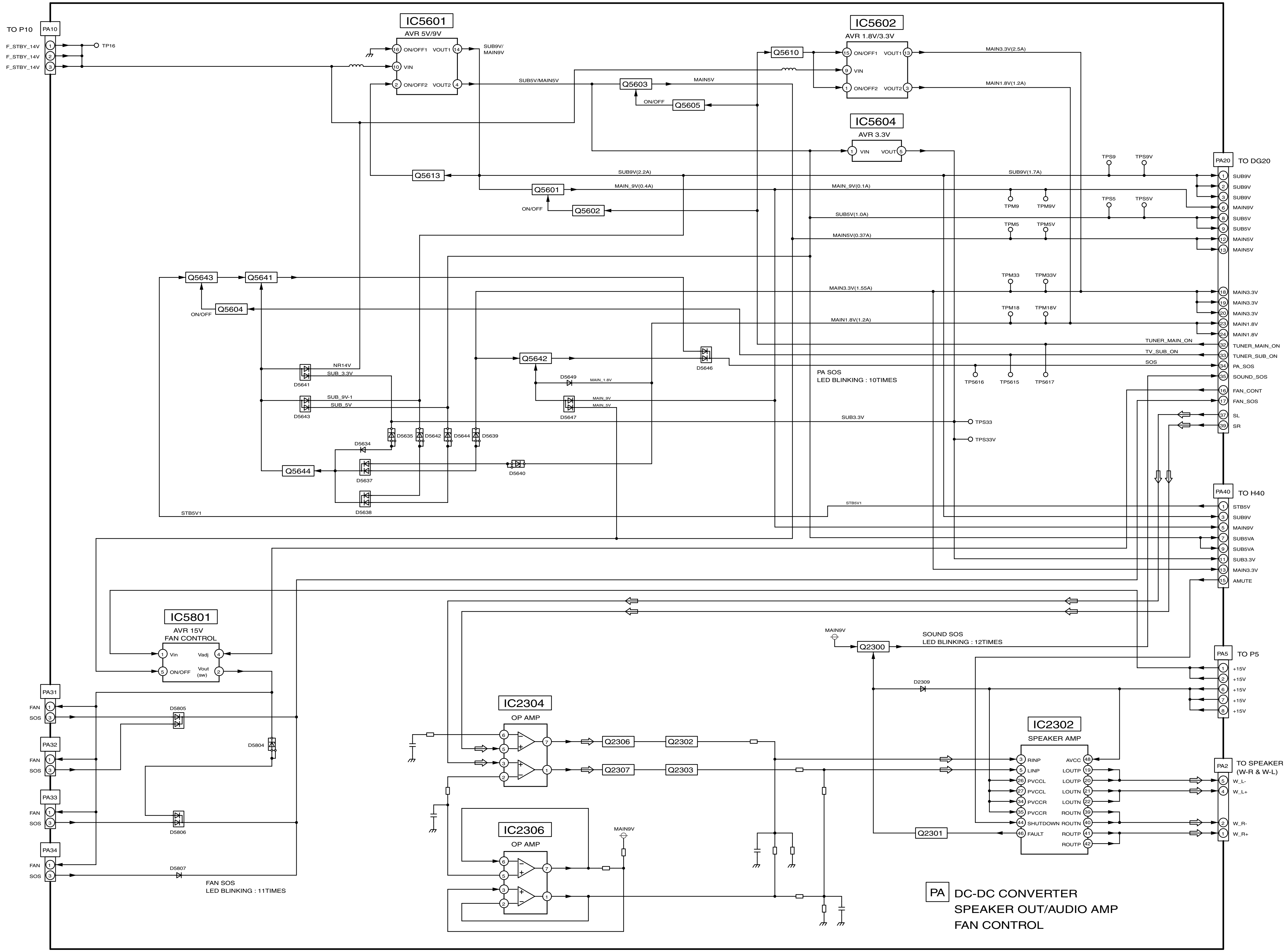
TH-50PV60E, TH-50PX60B
XV-Board Block Diagram

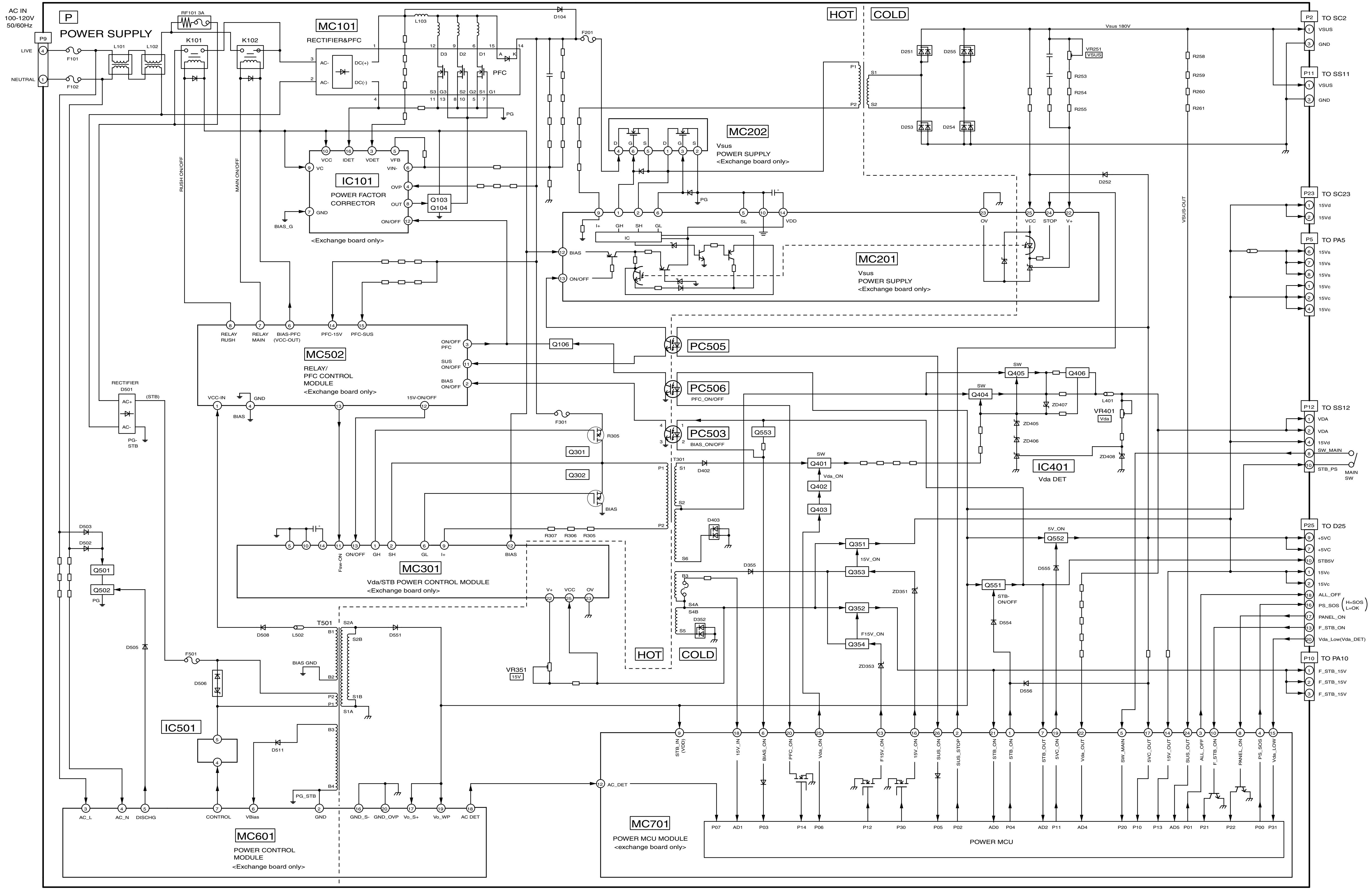

C3
DATA DRIVE
UPPER LEFT (FRONT VIEW)
TO D32
C31
9-35
DOUTUA0-UC7
ODEU
CLRU
CLKU0L
CLKU1L
LEU
PCU1
P+5V
+5V_DET
DATA 24bit
UA0
UC7
R7360
R7361
IC7302
BUFFER
IC7303
BUFFER
IC7304
BUFFER
IC7305
BUFFER
IC7301
BUFFER
VCC
6bit
UA6-UC7 6bit
UA4-UC5 6bit
UA2-UC3 6bit
UA0-UC1 6bit
TO C22
C32
VDA75V
C33
Vda
CA8
CA9
CA 10
CA 11
PANEL DATA DRIVER
C4
DATA DRIVE
LOWER LEFT (FRONT VIEW)
TO D33
C41
34-60
DOUTDA0-D7C
CLRD
ODED
CLKD0L
CLKD1L
LED
PCD1
UEH
USL
USH
UML
UMH
NUEL
SS_SOS8
DATA 24bit
DA0
DC7
R7461
R7460
SS43
C43
IC7402
BUFFER
IC7403
BUFFER
IC7404
BUFFER
IC7405
BUFFER
IC7401
BUFFER
DA6-DC7 6bit
DA4-DC5 6bit
DA2-DC3 6bit
DA0-DC1 6bit
TO C52
C42
C44
CB8
CB9
CB 10
CB 11
PANEL DATA DRIVER
TO C43
SS 43
5V
IC6241
BUFFER
VE Gen.
TPVE (+165V)
VR6000 Adj.
Q6221,Q6222
IC6221
TPVE
D6221
TO P11
SS 11
Vsus
TPVSUS
Vsus Gen.
IC6131
Q6141-Q6142
Q6146-Q6147
FET DRIVER
Q6001-Q6003
Q6021-Q6023
OUTPUT FET
SS 33
TPVDA
ENERGY RECOVERY
IC6151
FET DRIVER
Q6041-Q6043
Q6052,Q6053
L6001-L6004
L6011-L6014
D6253
LED(G)
IC6251
COMPARATOR
D6255
SS_SOS8
ENERGY RECOVERY SOS DET
LED BLINKING : 8 TIMES
TPSS1
Ve Gen.
IC6191
Q6103-Q6104
FET DRIVER
Q6101,Q6102
Q6105,Q6106
TO P12
SS 12
+15V
STB12V
STB PS
TP15V
Ve2 Gen.
(+5V)
IC6211
IN
FET DRIVER
Q6111,Q6112
Q6114
R6113
SS 44
SS 34
SS
SUSTAIN DRIVE
SS2
SS55
SS23
SS21
SS51
SS52
SS53
SS54
SS20
SS22
SS56
SS3
PANEL SUSTAIN ELECTRODE
TPSS1 SIGNAL WAVE
VE
Ve2
VSUS
S
POWER SW
SW2500
POWER SWITCH
S34

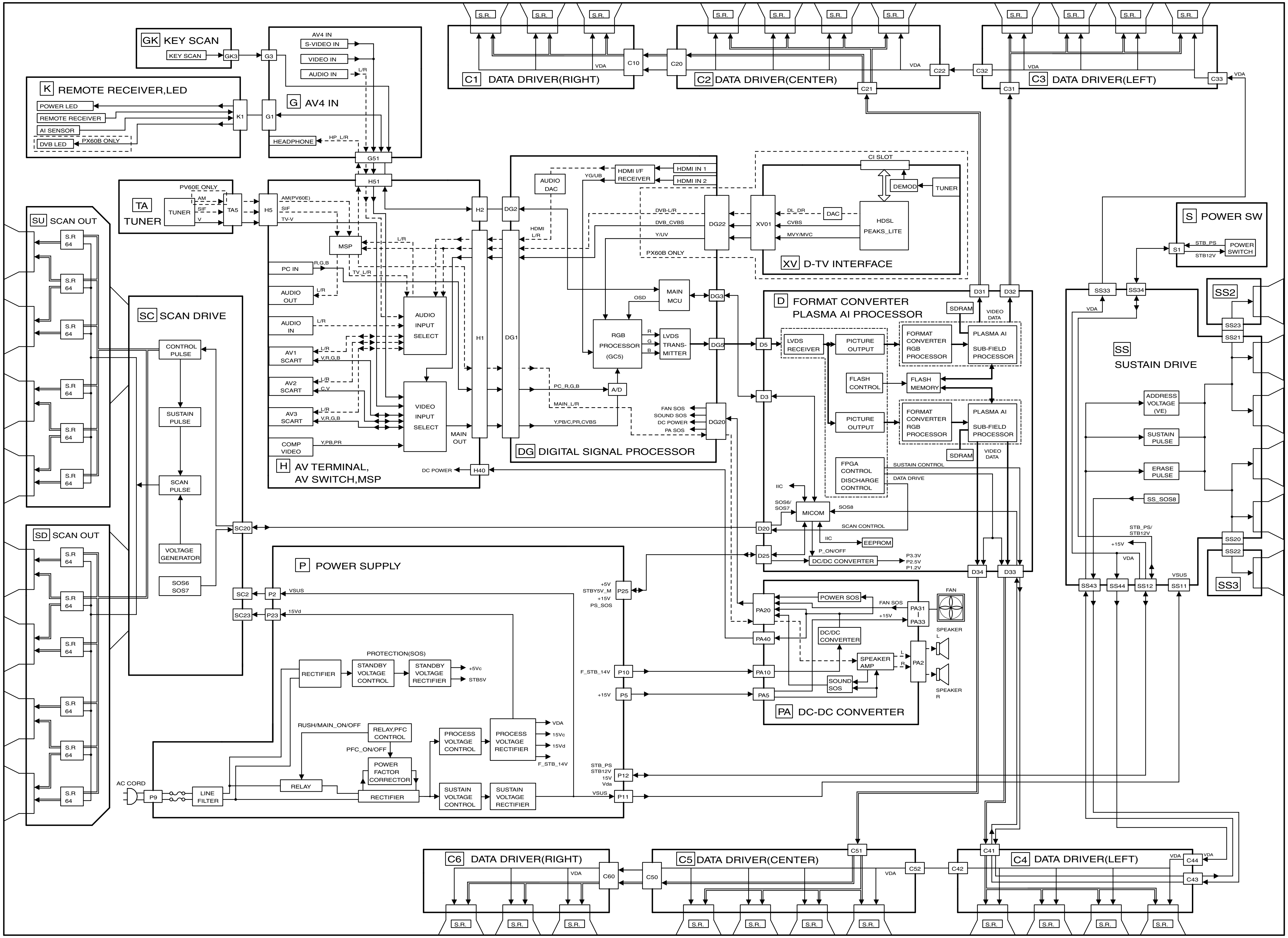

SC SCAN DRIVE
TO P2 SC2 Vsus Vsus
TO P23 SC23 +15V +15V
TO D20 SC20 P+5V CL CLK SIU SID SCSU CEL2 CPH CEL CSL CSH CML CMH SC_SOS6 SC_SOS7
TPVSUS VSUS VSET TP15V
VSET Gen. IC6821 Q6821,Q6822
TPVSET (+280V)
COLD
FLOATING GND
IC6791 DC/DC CONV. 16V_F VOUT VIN COM 15V
TPSC1 SIGNAL WAVE VSET VSUS VSET2 VSCN VAD
IC6725 +5V(SC2) AVR +5V (SC1)
IC6724 +5V(SC1) AVR +5V (SC2) 15V_F D6421
Vad △ 105V
IC6561,6562 BUFFER
PC6701 PHOTO COUPLER
PC6702
IC6721 BUFFER FCLU FCLD FCLKU FCLKD
IC6722 FSIU FSID PROU PROD
Vsus Gen. IC6501 Q6511,Q6512 Q6516,Q6617 Q6401-Q6403 Q6421-Q6423 FET DRIVEB OUTFET
VSCN SUPERIMPOSED IC6681 Q6681 Q6691 Q6682 FET DRIVER FET OUT IC6682 (Vf+5V) (Vscn) (Vfo) TPSCI
PC6703 PHOTO COUPLER
VSET SLOPE IC6601 Q6601,Q6602 FET DRIVER FET OUT D6620
IC6751 +5V(SC3)
PC6704 PHOTO COUPLER
VSET SEPARATE IC6752 Q6762 Q6621,Q6622 FET DRIVER FET OUT IC6753 15V
ENERGY RECOVERY IC6521 Q6531,Q6532 Q6551,Q6552 Q6441-Q6443 Q6452,Q6453 L6401 L6402 L6404 L6411 L6414 FET DRIVER OUTFET
VAD SEPARATE IC6772 Q6641,Q6642 Q6644,Q6645 Q6647,Q6648 Q6781 Q6782 FET DRIVER FET OUT
IC6771 +5V(SC3) 16V_F
PC6705 PHOTO COUPLER
IC6773 IC6774
VAD SLOPE Q6661-Q6663 FET OUT
VAD CONT IC6671 Q6671-Q6673 Q6680 FET DRIVER FET OUT
IC6581 Q6581 COMPARATOR D6583 LED(G) D6585
TPSOS6 ENERGY RECOVERY SOS DET LED BLINKING : 6 TIMES
TPSOS7 SC FLOATING PART SOS DET LED BLINKING : 7 TIMES
T6602 IC6803 POWER OSC VSUS D6806 VSET VSUS D6804 D6841
IC6841 Q6841,Q6842 VSCN Gen. TPVSCN (+140V)
IC6801 Q6803 VAD Gen.(△ 105V) VR6600 Adj.
TPVAD (Vad △ 105V) D6859 D6860
IC6802 VSET2 Gen. (+8V)
Q6743 Q6742
SC30 FOR FACTORY USE
PC6801 PHOTO COUPLER
PC6480 D6480 +5V(SC1)
PC6760 D6760 +5V(SC3)
PC6861 D6862 COMPA-RATOR IC6861 Vscn(VAD+140V)
PC6871 D6872 COMPA-RATOR IC6871 Vad(△ 105V) 16V_F
D6826 VSET
5V R6839 Q6824 D6825 R6838 R6833 R6834 R6835 R6836 R6837 VSETSOS DET
SC45 SC41 SC46 SC42 FSIU FCLU FCLKU PROU FSID FCLD FCLKD PROD Vf+5V Vf Vscn Vfo
SU SCAN OUT (UPPER)
SU45 SU41 SU1 SU2 SU3 SU4
IC6901 IC6902 IC6903 IC6904 IC6905 IC6906 S/P 64bit VDDH VDD CLK CL PRO GND SI SO 64 32 96 LINE D6903
PANEL SCAN ELECTRODES 384LINE (UPPER)
SD SCAN OUT (LOWER)
SD46 SD42 SD1 SD2 SD3 SD4
IC6951 IC6952 IC6953 IC6954 IC6955 IC6956 S/P 64bit D6963
PANEL SCAN ELECTRODES 384LINE (LOWER)

TH-50PV60E, TH-50PX60B
SC, SU and SD-Board Block Diagram

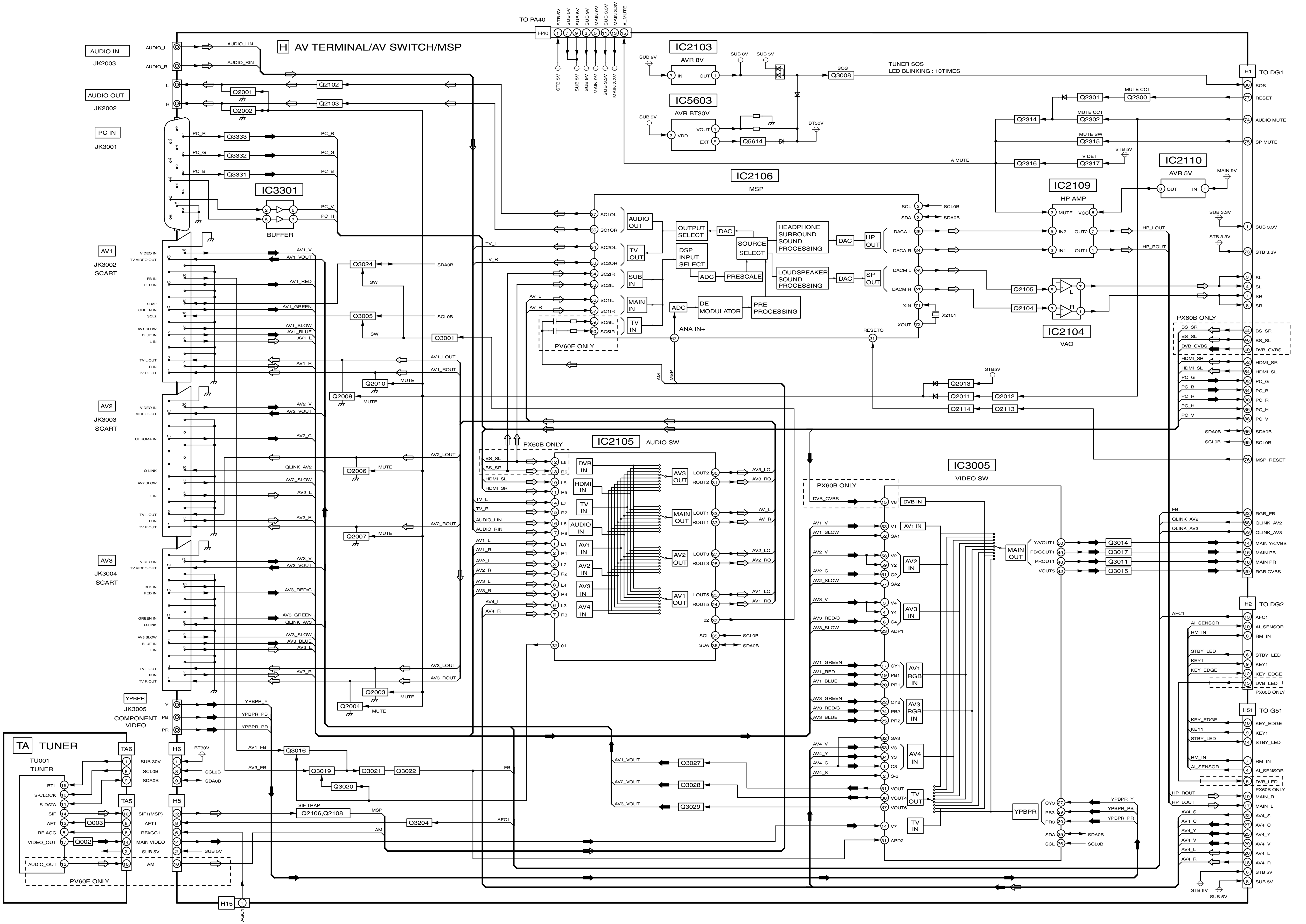
TH-50PV60E, TH-50PX60B
SC, SU and SD-Board Block Diagram


TO P10
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
TP16
IC5601
AVR 5V/9V
ON/OFF1
VOUT1
VIN
ON/OFF2
VOUT2
SUB9V/
MAIN9V
SUB5V/MAIN5V
Q5603
MAIN5V
ON/OFF
Q5605
IC5602
AVR 1.8V/3.3V
Q5610
ON/OFF1
VOUT1
VIN
ON/OFF2
VOUT2
MAIN3.3V(2.5A)
MAIN1.8V(1.2A)
IC5604
AVR 3.3V
VIN
VOUT
PA20
TO DG20
TPS9
TPS9V
Q5613
SUB9V(2.2A)
SUB9V(1.7A)
Q5601
MAIN_9V(0.4A)
MAIN_9V(0.1A)
TPM9
TPM9V
TPS5
TPS5V
ON/OFF
Q5602
SUB5V(1.0A)
TPM5
TPM5V
MAIN5V(0.37A)
SUB9V
SUB9V
SUB9V
MAIN9V
SUB5V
SUB5V
MAIN5V
MAIN5V
Q5643
Q5641
ON/OFF
Q5604
TPM33
TPM33V
MAIN3.3V(1.55A)
MAIN3.3V
MAIN3.3V
MAIN3.3V
TPM18
TPM18V
MAIN1.8V(1.2A)
MAIN1.8V
MAIN1.8V
TUNER_MAIN_ON
TUNER_MAIN_ON
TV_SUB_ON
TUNER_SUB_ON
Q5642
D5646
SOS
PA_SOS
PA SOS
LED BLINKING : 10TIMES
TP5616
TP5615
TP5617
SOUND_SOS
FAN_CONT
FAN_SOS
NR14V
SUB_3.3V
D5641
D5649
MAIN_1.8V
SUB_9V-1
SUB_5V
D5643
MAIN_9V
MAIN_5V
D5647
SUB3.3V
TPS33
TPS33V
SL
SR
D5635
D5642
D5644
D5639
D5634
Q5644
D5637
D5640
D5638
STB5V1
STB5V1
PA40
TO H40
STB5V
SUB9V
MAIN9V
SUB5VA
SUB5VA
SUB3.3V
MAIN3.3V
AMUTE
IC5801
AVR 15V
FAN CONTROL
Vin
Vadj
ON/OFF
Vout
(sw)
PA31
FAN
SOS
D5805
PA32
FAN
SOS
D5804
PA33
FAN
SOS
D5806
PA34
FAN
SOS
D5807
FAN SOS
LED BLINKING : 11TIMES
MAIN9V
Q2300
SOUND SOS
LED BLINKING : 12TIMES
PA5
TO P5
+15V
+15V
+15V
+15V
+15V
D2309
IC2304
OP AMP
Q2306
Q2302
Q2307
Q2303
IC2302
SPEAKER AMP
RINP
LINP
PVCCL
PVCCL
PVCCR
PVCCR
SHUTDOWN
FAULT
AVCC
LOUTP
LOUTP
LOUTN
LOUTN
ROUTN
ROUTN
ROUTP
ROUTP
PA2
TO SPEAKER
(W-R & W-L)
W_L-
W_L+
W_R-
W_R+
Q2301
IC2306
OP AMP
MAIN9V
PA
DC-DC CONVERTER
SPEAKER OUT/AUDIO AMP
FAN CONTROL


P
POWER SUPPLY
AC IN
100-120V
50/60Hz
P9
LIVE
NEUTRAL
F101
F102
L101
L102
RF101 3A
K101
K102
RUSH ON/OFF
MAIN ON/OFF
MC101
RECTIFIER&PFC
AC-
DC(+)
DC(-)
PFC
L103
D104
F201
PG
IC101
POWER FACTOR
CORRECTOR
VCC
IDET
VDET
VFB
VC
VIN-
OVP
OUT
GND
ON/OFF
Q103
Q104
BIAS_G
<Exchange board only>
MC202
Vsus
POWER SUPPLY
<Exchange board only>
MC201
Vsus
POWER SUPPLY
<Exchange board only>
HOT
COLD
Vsus 180V
D251
D255
D253
D254
VR251
VSUS
R253
R254
R255
R258
R259
R260
R261
D252
VSUS-OUT
GH
SH
GL
I+
IC
SL
VDD
OV
STOP
V+
BIAS
ON/OFF
MC502
RELAY/
PFC CONTROL
MODULE
<Exchange board only>
RELAY RUSH
RELAY MAIN
BIAS-PFC (VCC-OUT)
PFC-15V
PFC-SUS
ON/OFF PFC
SUS ON/OFF
BIAS ON/OFF
VCC-IN
15V-ON/OFF
Q106
PC505
PC506
PFC_ON/OFF
PC503
BIAS_ON/OFF
Q553
RECTIFIER
D501
AC+
PG-STB
(STB)
F301
R305
Q301
Q302
T301
D402
D403
S1
S2
S6
P1
P2
MC301
Vda/STB POWER CONTROL MODULE
<Exchange board only>
Fsw-ON
R307
R306
V+
VCC
VR351
15V
D503
D502
Q501
Q502
D505
D506
F501
IC501
T501
D508
L502
D551
B1
B2
B3
B4
S2A
S2B
S1A
S1B
BIAS GND
D511
PG_STB
MC601
POWER CONTROL
MODULE
<Exchange board only>
AC_L
AC_N
DISCHG
CONTROL
VBias
GND_S-
GND_OVP
Vo_S+
Vo_WP
AC DET
SW
Q401
Vda_ON
Q402
Q403
Q404
Q405
Q406
ZD405
ZD406
ZD407
ZD408
L401
VR401
Vda
IC401
Vda DET
Q351
15V_ON
Q353
Q352
F15V_ON
Q354
D355
ZD351
ZD353
D352
S4A
S4B
S5
5V_ON
Q552
D555
Q551
STB-ON/OFF
D554
D556
MC701
POWER MCU MODULE
<exchange board only>
POWER MCU
AC_DET
STB_IN (VDD)
15V_IN
BIAS_ON
PFC_ON
Vda_ON
F15V_ON
SUS_ON
SUS_STOP
STB_ON
STB_OUT
5VC_ON
Vda_OUT
SW_MAIN
5VC_OUT
15V_OUT
SUS_OUT
ALL_OFF
F_STB_ON
PANEL_ON
PS_SOS
Vda_LOW
P07
AD1
P03
P14
P06
P12
P30
P05
P02
AD0
P04
AD2
P11
AD4
P20
P10
P13
AD5
P01
P21
P22
P00
P31
P2
TO SC2
VSUS
GND
P11
TO SS11
P23
TO SC23
15Vd
P5
TO PA5
15Vs
15Vc
P12
TO SS12
VDA
SW_MAIN
STB_PS
MAIN SW
P25
TO D25
+5VC
STB5V
PS_SOS
H=SOS
L=OK
PANEL_ON
F_STB_ON
Vda_Low(Vda_DET)
P10
TO PA10
F_STB_15V

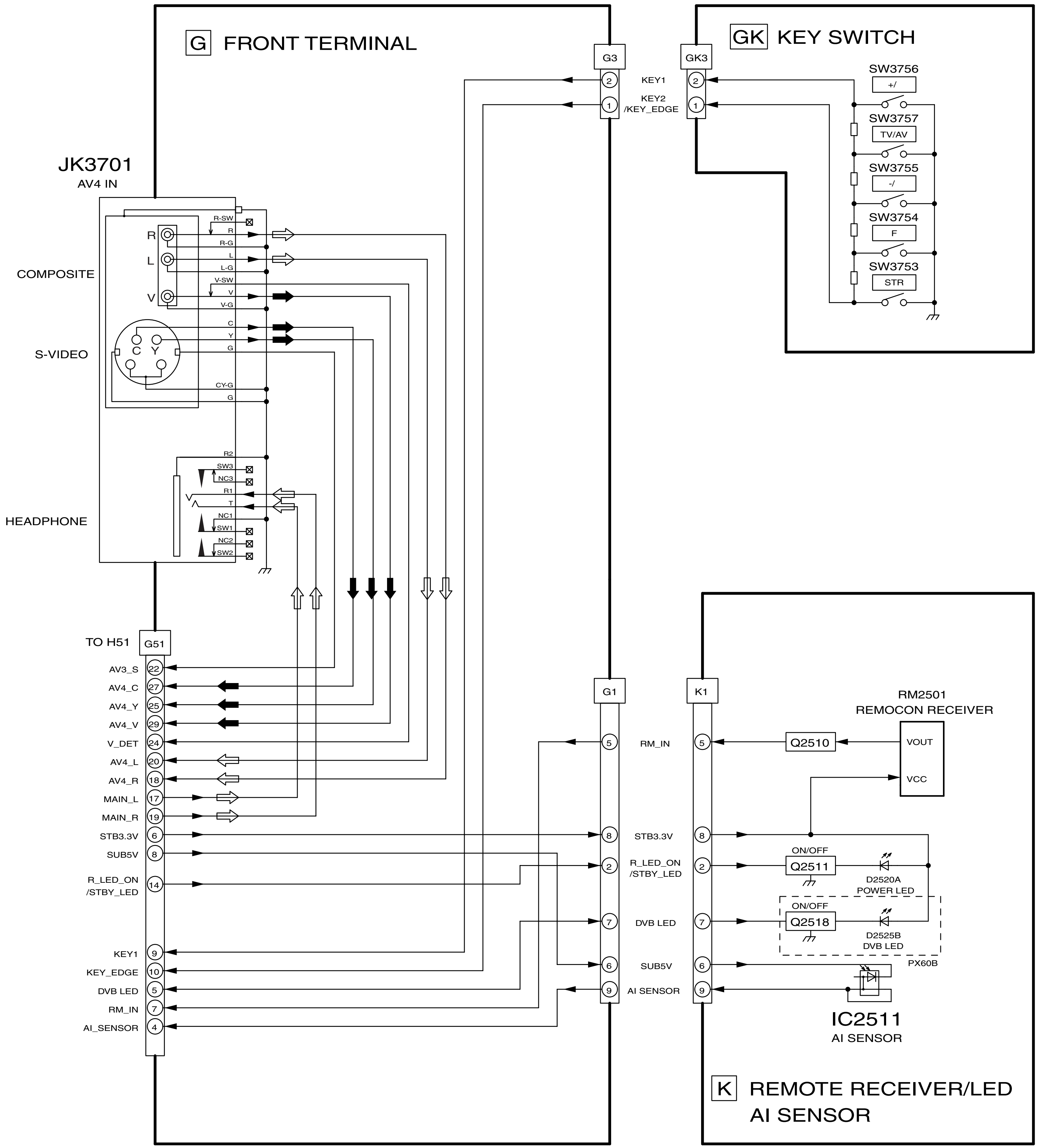

GK KEY SCAN
KEY SCAN
GK3
G3
K REMOTE RECEIVER,LED
POWER LED
REMOTE RECEIVER
AI SENSOR
DVB LED
PX60B ONLY
K1
G1
G AV4 IN
AV4 IN
S-VIDEO IN
VIDEO IN
AUDIO IN
L/R
HEADPHONE
HP_L/R
G51
H51
TA TUNER
TUNER
PV60E ONLY
AM
SIF
V
TA5
H5
AM(PV60E)
SIF
TV-V
MSP
L/R
TV_L/R
PC IN
R,G,B
AUDIO OUT
AUDIO IN
AV1 SCART
V,R,G,B
AV2 SCART
C,V
AV3 SCART
COMP VIDEO
Y,PB,PR
AUDIO INPUT SELECT
VIDEO INPUT SELECT
MAIN OUT
H1
H2
H40
DC POWER
H AV TERMINAL, AV SWITCH,MSP
SU SCAN OUT
SD SCAN OUT
S.R 64
SC SCAN DRIVE
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SOS6 SOS7
SC20
SC2
SC23
AUDIO DAC
HDMI I/F RECEIVER
HDMI IN 1
HDMI IN 2
YG/UB
HDMI L/R
DG2
DG1
DG22
DG3
DG5
DG20
DVB-L/R
DVB_CVBS
Y/UV
PX60B ONLY
MAIN MCU
OSD
RGB PROCESSOR (GC5)
R G B
LVDS TRANS-MITTER
PC_R,G,B
A/D
MAIN_L/R
Y,PB/C,PR,CVBS
FAN SOS
SOUND SOS
DC POWER
PA SOS
DG DIGITAL SIGNAL PROCESSOR
CI SLOT
DEMOD
TUNER
XV01
DL_DR
DAC
CVBS
MVY/MVC
HDSL PEAKS_LITE
XV D-TV INTERFACE
C1 DATA DRIVER(RIGHT)
C2 DATA DRIVER(CENTER)
C3 DATA DRIVER(LEFT)
S.R.
VDA
C10
C20
C21
C22
C32
C31
C33
S POWER SW
S1
STB_PS
STB12V
POWER SWITCH
D FORMAT CONVERTER PLASMA AI PROCESSOR
D31
D32
SDRAM
VIDEO DATA
D5
LVDS RECEIVER
PICTURE OUTPUT
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
FLASH CONTROL
FLASH MEMORY
D3
FPGA CONTROL DISCHARGE CONTROL
SUSTAIN CONTROL
DATA DRIVE
IIC
SOS6/ SOS7
MICOM
SOS8
SCAN CONTROL
EEPROM
P_ON/OFF
DC/DC CONVERTER
P3.3V P2.5V P1.2V
D20
D25
D34
D33
SS SUSTAIN DRIVE
SS2
SS3
SS33
SS34
SS23
SS21
SS20
SS22
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS_SOS8
STB_PS/ STB12V
+15V
VDA
VSUS
SS43
SS44
SS12
SS11
P POWER SUPPLY
P2
VSUS
P23
15Vd
P25
+5V STBY5V_M +15V PS_SOS
PROTECTION(SOS)
RECTIFIER
STANDBY VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
+5Vc
STB5V
RUSH/MAIN_ON/OFF
RELAY,PFC CONTROL
PFC_ON/OFF
POWER FACTOR CORRECTOR
PROCESS VOLTAGE CONTROL
PROCESS VOLTAGE RECTIFIER
VDA
15Vc
15Vd
F_STB_14V
AC CORD
P9
LINE FILTER
RELAY
RECTIFIER
SUSTAIN VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
P10
F_STB_14V
P5
+15V
P12
STB_PS STB12V 15V Vda
P11
VSUS
PA20
POWER SOS
FAN SOS
+15V
PA31 | PA33
FAN
PA40
DC/DC CONVERTER
SPEAKER AMP
L R
PA2
SPEAKER L
SPEAKER R
SOUND SOS
PA10
PA5
PA DC-DC CONVERTER
C6 DATA DRIVER(RIGHT)
C5 DATA DRIVER(CENTER)
C4 DATA DRIVER(LEFT)
C60
C50
C51
C52
C42
C41
C44
C43
VDA
S.R.

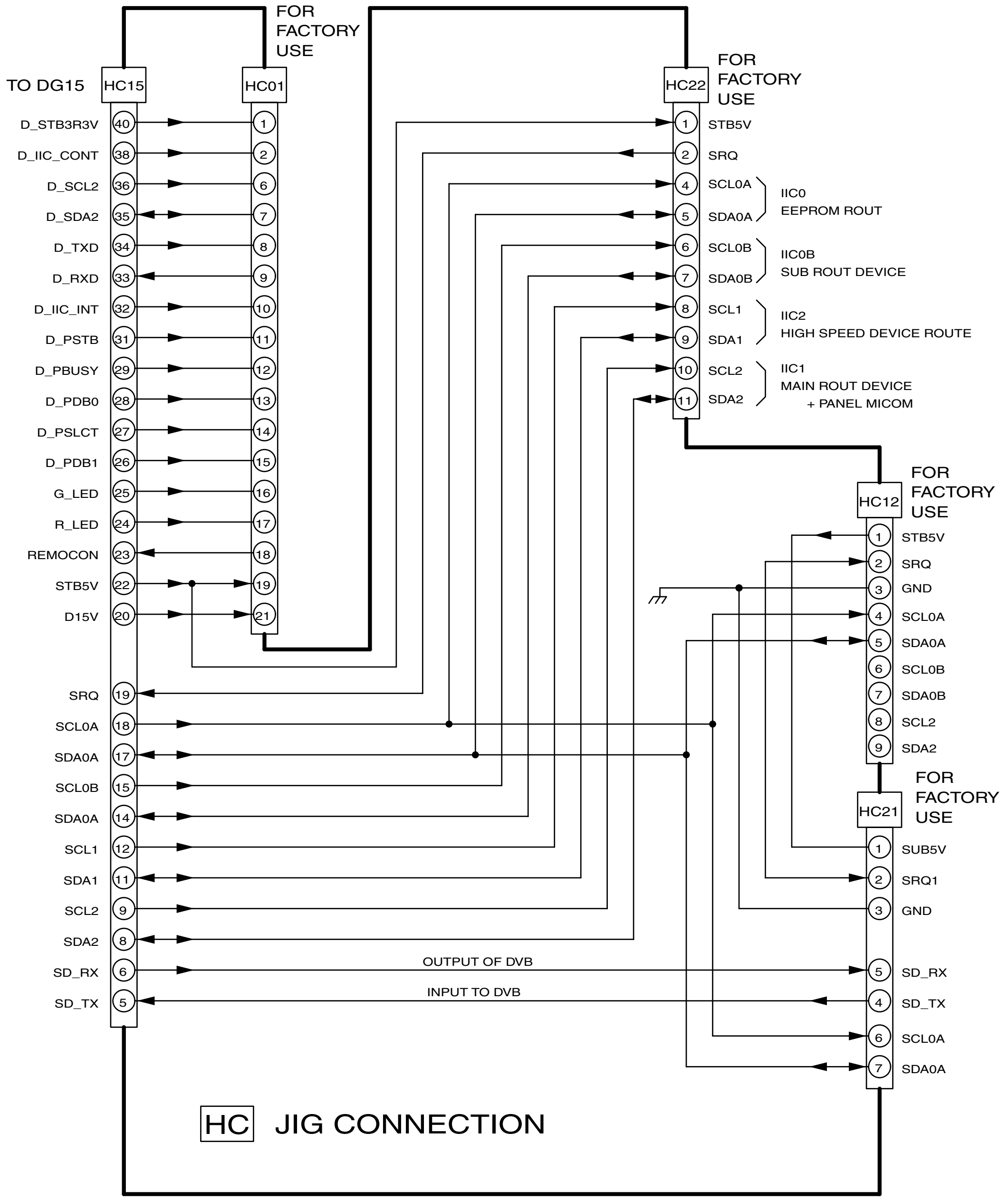
TH-50PV60E, TH-50PX60B
Main Block Diagram

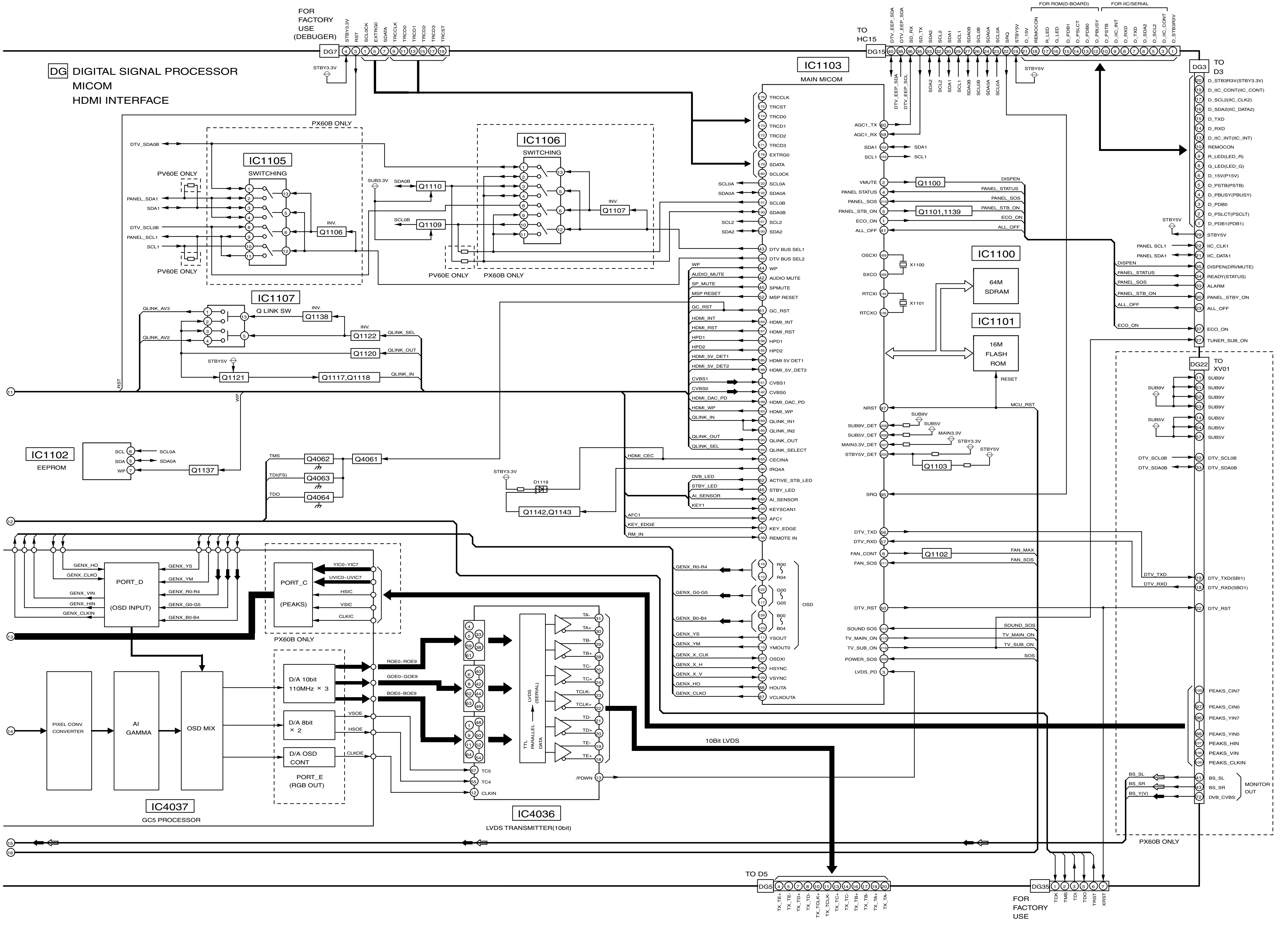

H AV TERMINAL/AV SWITCH/MSP
TO PA40
H40
STB 6V
SUB 5V
SUB 9V
MAIN 9V
SUB 3.3V
MAIN 3.3V
A_MUTE
AUDIO IN
JK2003
AUDIO_L
AUDIO_R
AUDIO OUT
JK2002
PC IN
JK3001
PC_R
PC_G
PC_B
PC_V
PC_H
Q3333
Q3332
Q3331
IC3301
BUFFER
Q2001
Q2002
Q2102
Q2103
AV1
JK3002
SCART
AV2
JK3003
SCART
AV3
JK3004
SCART
YPBPR
JK3005
COMPONENT VIDEO
TA TUNER
TU001
TUNER
TA6
TA5
H6
H5
H15
BT30V
SUB 30V
SCL0B
SDA0B
SIF1(MSP)
AFT1
RFAGC1
MAIN VIDEO
SUB 5V
AM
PV60E ONLY
AUDIO_OUT
Q003
Q002
Q3016
Q3019
Q3020
Q3021
Q3022
Q3204
Q2106,Q2108
SIF TRAP
Q3024
Q3005
Q3001
Q2010
Q2009
Q2006
Q2007
Q2003
Q2004
MUTE
IC2103
AVR 8V
IC5603
AVR BT30V
Q3008
Q5614
TUNER SOS
LED BLINKING : 10TIMES
IC2106
MSP
AUDIO OUT
TV OUT
SUB IN
MAIN IN
TV IN
OUTPUT SELECT
DSP INPUT SELECT
DAC
ADC
PRESCALE
SOURCE SELECT
HEADPHONE SURROUND SOUND PROCESSING
LOUDSPEAKER SOUND PROCESSING
HP OUT
SP OUT
DE-MODULATOR
PRE-PROCESSING
ANA IN+
X2101
RESETQ
IC2109
HP AMP
IC2110
AVR 5V
IC2104
VAO
Q2300
Q2301
Q2302
Q2314
Q2315
Q2316
Q2317
Q2104
Q2105
Q2011
Q2012
Q2013
Q2113
Q2114
MUTE CCT
MUTE SW
V DET
A MUTE
HP_LOUT
HP_ROUT
IC2105
AUDIO SW
PX60B ONLY
DVB IN
HDMI IN
TV IN
AUDIO IN
AV1 IN
AV2 IN
AV3 IN
AV4 IN
AV3 OUT
MAIN OUT
AV2 OUT
AV1 OUT
IC3005
VIDEO SW
DVB_CVBS
AV1 IN
AV2 IN
AV3 IN
AV1 RGB IN
AV3 RGB IN
AV4 IN
TV OUT
TV IN
YPBPR
MAIN OUT
Q3014
Q3017
Q3011
Q3015
Q3027
Q3028
Q3029
H1
TO DG1
SOS
RESET
AUDIO MUTE
SP MUTE
SUB 3.3V
STB 3.3V
SL
SR
BS_SR
BS_SL
DVB_CVBS
HDMI_SR
HDMI_SL
PC_G
PC_B
PC_R
PC_H
PC_V
SDA0B
SCL0B
MSP_RESET
RGB_FB
QLINK_AV2
QLINK_AV3
MAIN Y/CVBS
MAIN PB
MAIN PR
RGB CVBS
H2
TO DG2
AFC1
AI_SENSOR
RM_IN
STBY_LED
KEY1
KEY_EDGE
DVB_LED
H51
TO G51
MAIN_R
MAIN_L
AV4_S
AV4_C
AV4_Y
AV4_V
AV4_L
AV4_R
STB 5V
SUB 5V

TH-50PV60E, TH-50PX60B
H and TA-Board Block Diagram

TH-50PV60E, TH-50PX60B
H and TA-Board Block Diagram

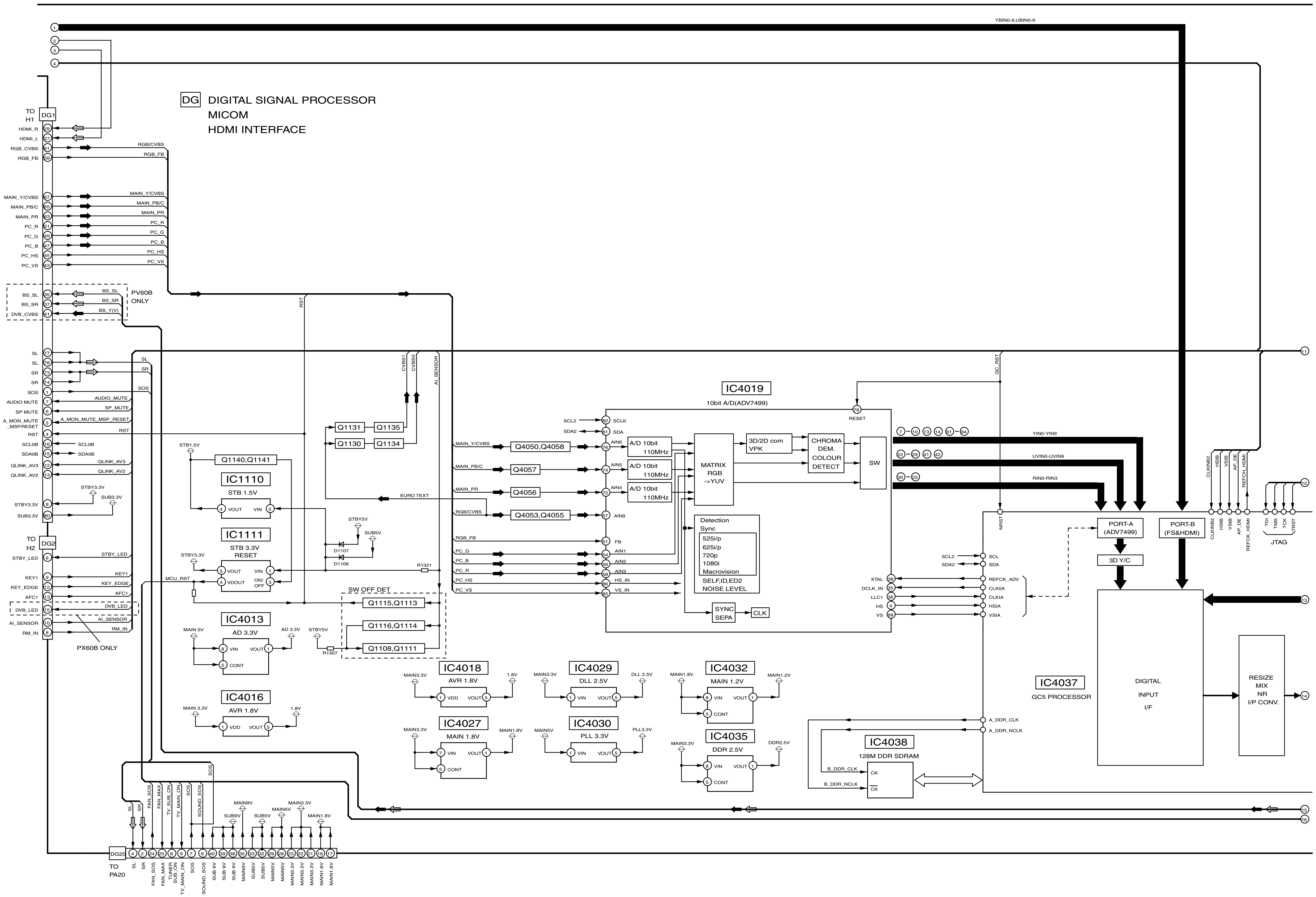

G FRONT TERMINAL
GK KEY SWITCH
G3
GK3
KEY1
KEY2
/KEY_EDGE
SW3756
+/
SW3757
TV/AV
SW3755
-/
SW3754
F
SW3753
STR
JK3701
AV4 IN
COMPOSITE
S-VIDEO
HEADPHONE
R
L
V
C
Y
R-SW
R
R-G
L
L-G
V-SW
V
V-G
C
Y
G
CY-G
G
R2
SW3
NC3
R1
T
NC1
SW1
NC2
SW2
TO H51
G51
AV3_S 22
AV4_C 27
AV4_Y 25
AV4_V 29
V_DET 24
AV4_L 20
AV4_R 18
MAIN_L 17
MAIN_R 19
STB3.3V 6
SUB5V 8
R_LED_ON /STBY_LED 14
KEY1 9
KEY_EDGE 10
DVB LED 5
RM_IN 7
AI_SENSOR 4
G1
K1
RM_IN 5
STB3.3V 8
R_LED_ON /STBY_LED 2
DVB LED 7
SUB5V 6
AI SENSOR 9
RM2501
REMOCON RECEIVER
VOUT
VCC
Q2510
ON/OFF
Q2511
D2520A
POWER LED
ON/OFF
Q2518
D2525B
DVB LED
PX60B
IC2511
AI SENSOR
K REMOTE RECEIVER/LED
AI SENSOR

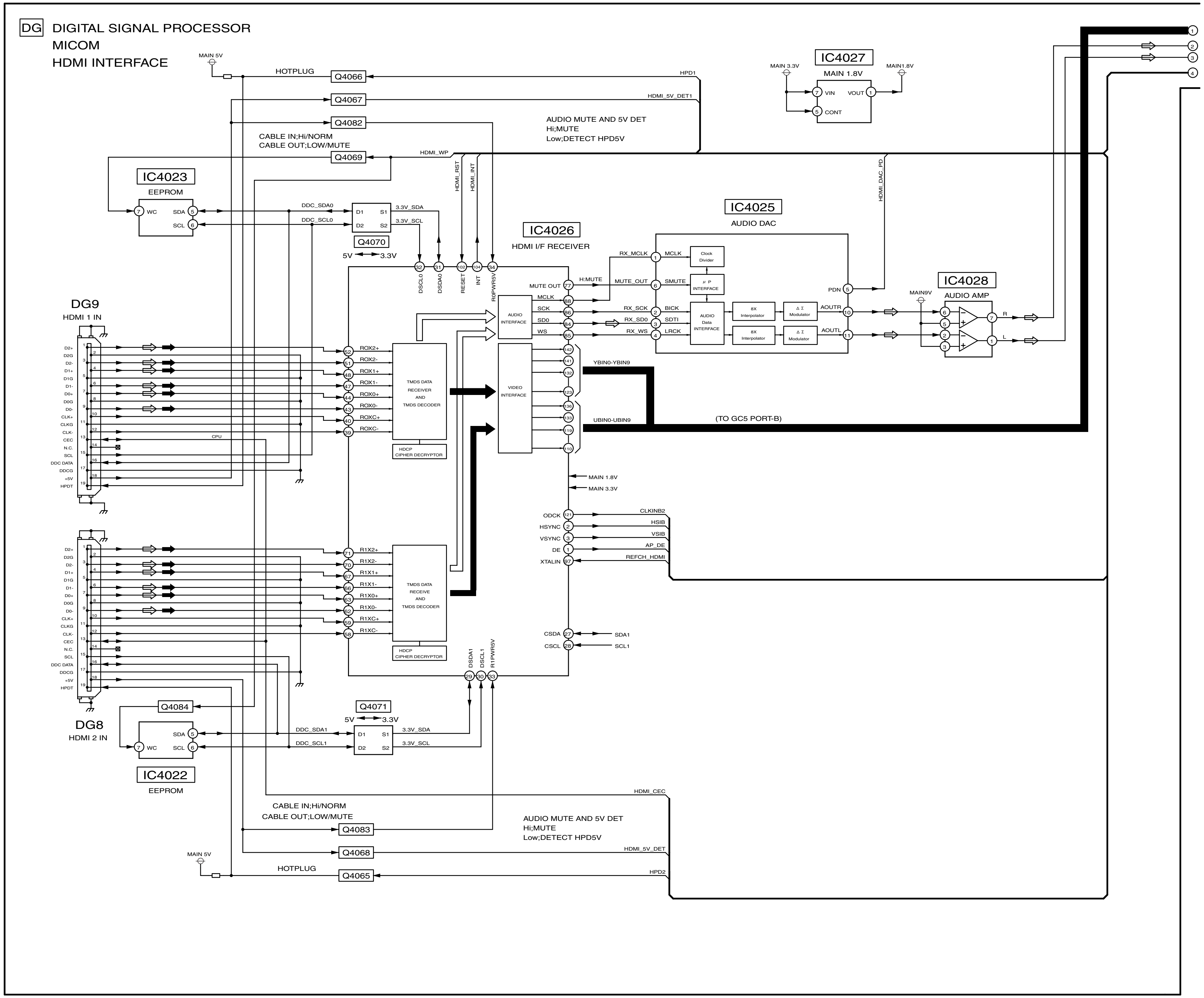

TO DG15
HC15
HC01
FOR FACTORY USE
HC22
FOR FACTORY USE
D_STB3R3V 40 — 1
D_IIC_CONT 38 — 2
D_SCL2 36 — 6
D_SDA2 35 — 7
D_TXD 34 — 8
D_RXD 33 — 9
D_IIC_INT 32 — 10
D_PSTB 31 — 11
D_PBUSY 29 — 12
D_PDB0 28 — 13
D_PSLCT 27 — 14
D_PDB1 26 — 15
G_LED 25 — 16
R_LED 24 — 17
REMOCON 23 — 18
STB5V 22 — 19
D15V 20 — 21
SRQ 19
SCL0A 18
SDA0A 17
SCL0B 15
SDA0A 14
SCL1 12
SDA1 11
SCL2 9
SDA2 8
SD_RX 6
SD_TX 5
OUTPUT OF DVB
INPUT TO DVB
1 STB5V
2 SRQ
4 SCL0A
5 SDA0A
IIC0
EEPROM ROUT
6 SCL0B
7 SDA0B
IIC0B
SUB ROUT DEVICE
8 SCL1
9 SDA1
IIC2
HIGH SPEED DEVICE ROUTE
10 SCL2
11 SDA2
IIC1
MAIN ROUT DEVICE
+ PANEL MICOM
HC12
FOR FACTORY USE
1 STB5V
2 SRQ
3 GND
4 SCL0A
5 SDA0A
6 SCL0B
7 SDA0B
8 SCL2
9 SDA2
HC21
FOR FACTORY USE
1 SUB5V
2 SRQ1
3 GND
5 SD_RX
4 SD_TX
6 SCL0A
7 SDA0A
HC JIG CONNECTION

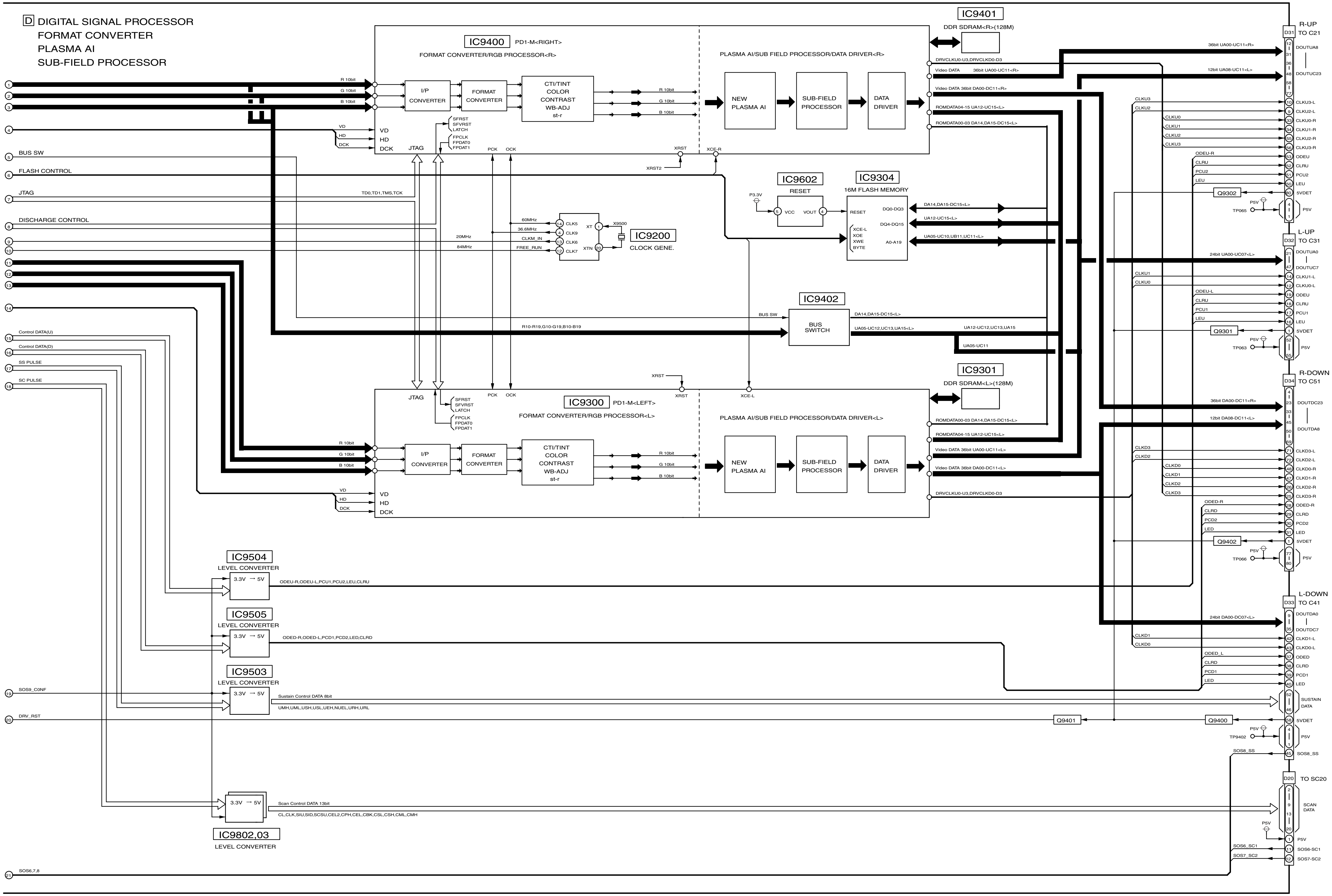

DG DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
FOR FACTORY USE (DEBUGER)
DG7
STBY3.3V
RST
SCLOCK
EXTRG0
SDATA
TRCCLK
TRCD0
TRCD1
TRCD2
TRCD3
TRCST
TO HC15
DG15
FOR ROM(D-BOARD)
FOR IIC/SERIAL
TO D3
DG3
IC1103
MAIN MICOM
IC1105
SWITCHING
IC1106
SWITCHING
PX60B ONLY
PV60E ONLY
INV.
Q1106
Q1107
Q1110
Q1109
SUB3.3V
SDA0B
SCL0B
DTV_SDA0B
PANEL_SDA1
SDA1
DTV_SCL0B
PANEL_SCL1
SCL1
IC1107
Q LINK SW
Q1138
Q1122
Q1120
Q1121
Q1117,Q1118
QLINK_AV3
QLINK_AV2
QLINK_SEL
QLINK_OUT
QLINK_IN
STBY5V
IC1102
EEPROM
SCL0A
SDA0A
WP
Q1137
Q4062
Q4063
Q4064
Q4061
TMS
TDI(FS)
TDO
STBY3.3V
D1119
Q1142,Q1143
IC1100
64M SDRAM
IC1101
16M FLASH ROM
RESET
X1100
X1101
OSCXI
SXCO
RTCXI
RTCXO
AGC1_TX
AGC1_RX
VMUTE
PANEL STATUS
PANEL_SOS
PANEL_STB_ON
ECO_ON
ALL_OFF
Q1100
Q1101,1139
DISPEN
NRST
MCU_RST
SUB9V_DET
SUB5V_DET
MAIN3.3V_DET
STBY5V_DET
Q1103
SRQ
DTV_TXD
DTV_RXD
FAN_CONT
FAN_SOS
Q1102
FAN_MAX
DTV_RST
SOUND SOS
TV_MAIN_ON
TV_SUB_ON
POWER_SOS
LVDS_PD
OSD
TO XV01
DG22
SUB9V
SUB5V
PEAKS_CIN7
PEAKS_CIN0
PEAKS_YIN7
PEAKS_YIN0
PEAKS_HIN
PEAKS_VIN
PEAKS_CLKIN
BS_SL
BS_SR
BS_Y(V)
DVB_CVBS
MONITOR OUT
PX60B ONLY
PORT_D
(OSD INPUT)
PORT_C
(PEAKS)
YIC0~YIC7
UVIC0~UVIC7
HSIC
VSIC
CLKIC
GENX_HO
GENX_CLKO
GENX_VIN
GENX_HIN
GENX_CLKIN
GENX_YS
GENX_YM
GENX_R0-R4
GENX_G0-G5
GENX_B0-B4
D/A 10bit 110MHz × 3
D/A 8bit × 2
D/A OSD CONT
PORT_E (RGB OUT)
ROE0~ROE9
GOE0~GOE9
BOE0~BOE9
VSOE
HSOE
CLKOE
PIXEL CONV. CONVERTER
AI GAMMA
OSD MIX
IC4037
GC5 PROCESSOR
LVDS (SERIAL)
TTL PARALLEL DATA
TA-
TA+
TB-
TB+
TC-
TC+
TCLK-
TCLK+
TD-
TD+
TE-
TE+
/PDWN
TC5
TC4
CLKIN
IC4036
LVDS TRANSMITTER(10bit)
10Bit LVDS
TO D5
DG5
TX_TE+
TX_TE-
TX_TD+
TX_TD-
TX_TCLK+
TX_TCLK-
TX_TC+
TX_TC-
TX_TB+
TX_TB-
TX_TA+
TX_TA-
DG35
FOR FACTORY USE
TCK
TMS
TDI
TDO
TRST
XRST

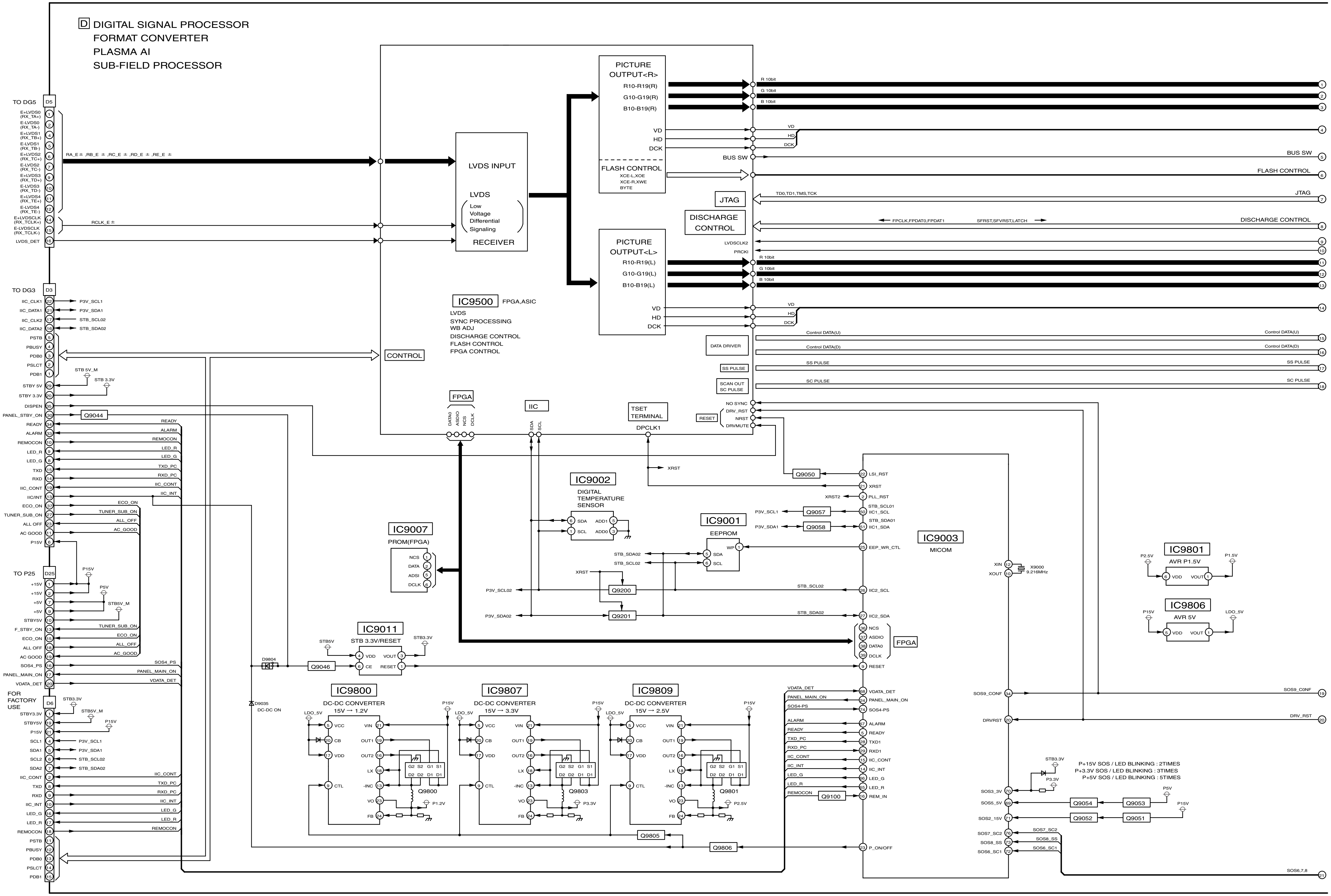
TH-50PV60E, TH-50PX60B
DG-Board Block (3 of 3) Diagram

TH-50PV60E, TH-50PX60B
DG-Board (3 of 3) Block Diagram


DG
DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
TO H1
DG1
HDMI_R
HDMI_L
RGB_CVBS
RGB_FB
MAIN_Y/CVBS
MAIN_PB/C
MAIN_PR
PC_R
PC_G
PC_B
PC_HS
PC_VS
BS_SL
BS_SR
DVB_CVBS
BS_Y(V)
PV60B ONLY
SL
SR
SOS
AUDIO MUTE
SP MUTE
A_MON_MUTE _MSP.RESET
RST
SCL0B
SDA0B
QLINK_AV3
QLINK_AV2
STBY3.3V
SUB3.3V
TO H2
DG2
STBY_LED
KEY1
KEY_EDGE
AFC1
DVB_LED
AI_SENSOR
RM_IN
PX60B ONLY
YBIN0-9,UBIN0-9
CVBS1
CVBS0
AI_SENSOR
Q1131
Q1135
Q1130
Q1134
EURO TEXT
STB1.5V
Q1140,Q1141
IC1110
STB 1.5V
VOUT
VIN
IC1111
STB 3.3V
RESET
ON/OFF
MCU_RST
D1107
D1106
STBY5V
SUB5V
R1321
SW OFF DET
Q1115,Q1113
Q1116,Q1114
Q1108,Q1111
R1307
IC4013
AD 3.3V
MAIN 5V
CONT
IC4016
AVR 1.8V
MAIN 3.3V
VDD
IC4018
AVR 1.8V
IC4027
MAIN 1.8V
IC4029
DLL 2.5V
IC4030
PLL 3.3V
IC4032
MAIN 1.2V
IC4035
DDR 2.5V
IC4038
128M DDR SDRAM
B_DDR_CLK
B_DDR_NCLK
CK
IC4019
10bit A/D(ADV7499)
SCL2
SDA2
SCLK
SDA
RESET
Q4050,Q4058
Q4057
Q4056
Q4053,Q4055
AIN6
AIN5
AIN4
AIN9
FB
AIN1
AIN2
AIN3
HS_IN
VS_IN
A/D 10bit 110MHz
MATRIX RGB ->YUV
3D/2D com VPK
CHROMA DEM. COLOUR DETECT
SW
Detection Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2 NOISE LEVEL
SYNC SEPA
CLK
XTAL
DCLK_IN
LLC1
HS
VS
YIN0-YIN9
UVIN0-UVIN9
RIN0-RIN3
GC_RST
NRST
IC4037
GC5 PROCESSOR
SCL
SDA
REFCK_ADV
CLK0A
CLKIA
HSIA
VSIA
A_DDR_CLK
A_DDR_NCLK
PORT-A (ADV7499)
PORT-B (FS&HDMI)
3D Y/C
DIGITAL INPUT I/F
RESIZE MIX NR I/P CONV.
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
TDI
TMS
TCK
TRST
JTAG
DG20
TO PA20
SL
SR
FAN_SOS
FAN_MAX
TUNER SUB_ON
TV_MAIN_ON
SOS
SOUND_SOS
SUB 9V
MAIN9V
SUB5V
MAIN5V
MAIN3.3V
MAIN1.8V

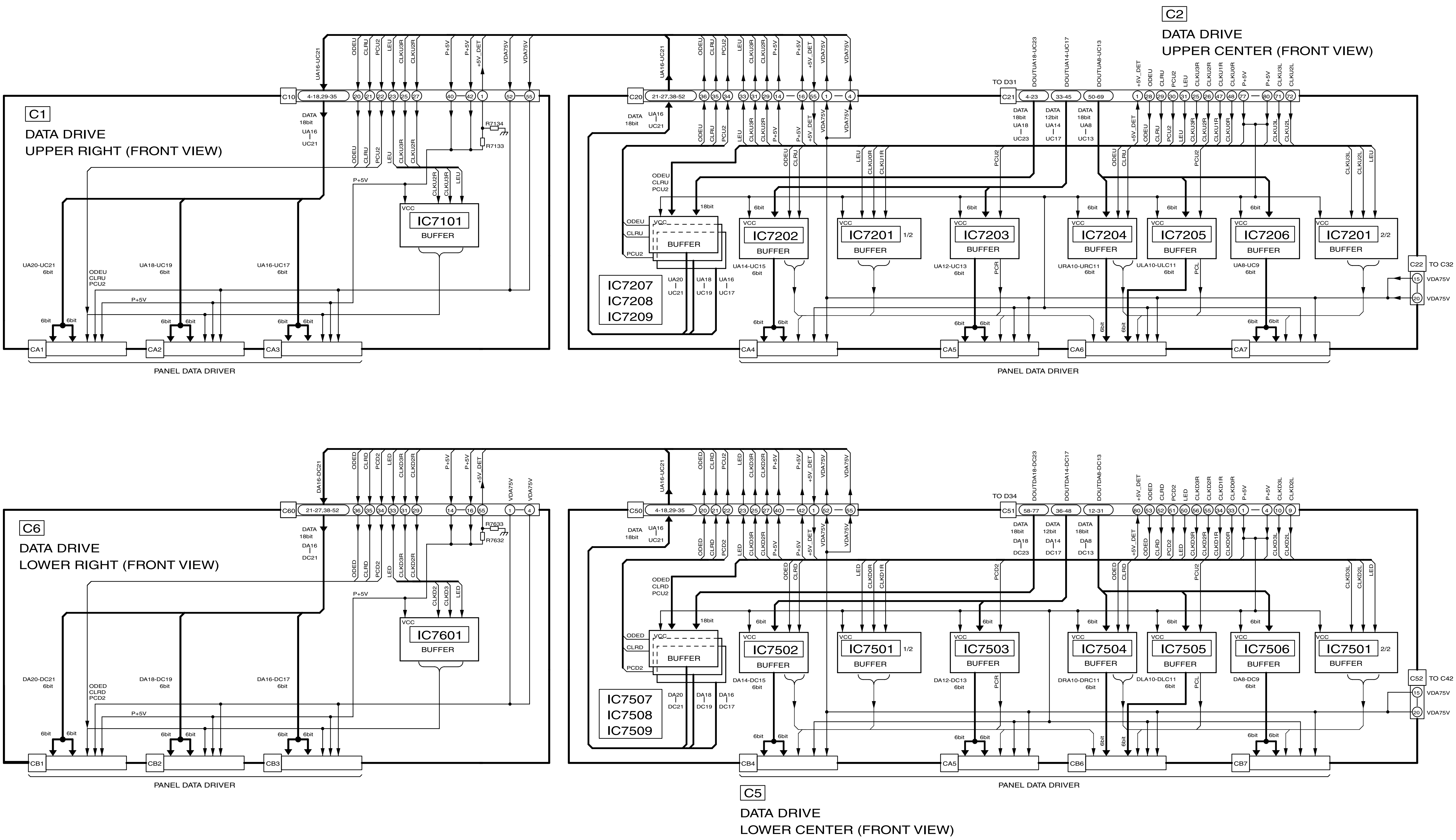

DG
DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
MAIN 5V
HOTPLUG
Q4066
HPD1
Q4067
HDMI_5V_DET1
Q4082
AUDIO MUTE AND 5V DET
Hi;MUTE
Low;DETECT HPD5V
CABLE IN;Hi/NORM
CABLE OUT;LOW/MUTE
Q4069
HDMI_WP
IC4023
EEPROM
WC
SDA
SCL
DDC_SDA0
DDC_SCL0
D1
D2
S1
S2
3.3V_SDA
3.3V_SCL
Q4070
5V
3.3V
HDMI_RST
HDMI_INT
DSCL0
DSDA0
RESET
INT
R0PWR5V
IC4026
HDMI I/F RECEIVER
IC4027
MAIN 1.8V
MAIN 3.3V
MAIN1.8V
VIN
VOUT
CONT
IC4025
AUDIO DAC
HDMI_DAC_PD
RX_MCLK
MCLK
Clock Divider
MUTE OUT
H:MUTE
MUTE_OUT
SMUTE
µ P INTERFACE
PDN
SCK
RX_SCK
BICK
SD0
RX_SD0
SDTI
WS
RX_WS
LRCK
AUDIO INTERFACE
AUDIO Data INTERFACE
8X Interpolator
Δ Σ Modulator
AOUTR
AOUTL
IC4028
AUDIO AMP
MAIN9V
R
L
DG9
HDMI 1 IN
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V
HPDT
CPU
R0X2+
R0X2-
R0X1+
R0X1-
R0X0+
R0X0-
R0XC+
R0XC-
TMDS DATA RECEIVER AND TMDS DECODER
HDCP CIPHER DECRYPTOR
VIDEO INTERFACE
YBIN0-YBIN9
UBIN0-UBIN9
(TO GC5 PORT-B)
MAIN 1.8V
MAIN 3.3V
ODCK
HSYNC
VSYNC
DE
XTALIN
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
R1X2+
R1X2-
R1X1+
R1X1-
R1X0+
R1X0-
R1XC+
R1XC-
TMDS DATA RECEIVE AND TMDS DECODER
CSDA
CSCL
SDA1
SCL1
DSDA1
DSCL1
R1PWR5V
DG8
HDMI 2 IN
Q4084
Q4071
DDC_SDA1
DDC_SCL1
IC4022
EEPROM
HDMI_CEC
Q4083
Q4068
HDMI_5V_DET
Q4065
HPD2


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
IC9400 PD1-M<RIGHT>
FORMAT CONVERTER/RGB PROCESSOR<R>
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<R>
I/P CONVERTER
FORMAT CONVERTER
CTI/TINT COLOR CONTRAST WB-ADJ st-r
NEW PLASMA AI
SUB-FIELD PROCESSOR
DATA DRIVER
R 10bit
G 10bit
B 10bit
VD
HD
DCK
JTAG
SFRST SFVRST LATCH
FPCLK FPDAT0 FPDAT1
PCK
OCK
XRST
XCE-R
XRST2
IC9401 DDR SDRAM<R>(128M)
DRVCLKU0-U3,DRVCLKD0-D3
Video DATA 36bit UA00-UC11<R>
Video DATA 36bit DA00-DC11<R>
ROMDATA04-15 UA12-UC15<L>
ROMDATA00-03 DA14,DA15-DC15<L>
BUS SW
FLASH CONTROL
JTAG
TD0,TD1,TMS,TCK
DISCHARGE CONTROL
IC9602 RESET
P3.3V
VCC
VOUT
IC9304 16M FLASH MEMORY
RESET
XCE-L XOE XWE BYTE
DQ0-DQ3
DQ4-DQ15
A0-A19
DA14,DA15-DC15<L>
UA12-UC15<L>
UA05-UC10,UB11,UC11<L>
60MHz
36.6MHz
20MHz
84MHz
CLKM_IN
FREE_RUN
CLK5 CLK9 CLK6 CLK7
XT XTN
X9500
IC9200 CLOCK GENE.
IC9402 BUS SWITCH
R10-R19,G10-G19,B10-B19
DA14,DA15-DC15<L>
UA05-UC12,UC13,UA15<L>
UA12-UC12,UC13,UA15
UA05-UC11
Control DATA(U)
Control DATA(D)
SS PULSE
SC PULSE
IC9301 DDR SDRAM<L>(128M)
IC9300 PD1-M<LEFT>
FORMAT CONVERTER/RGB PROCESSOR<L>
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<L>
XCE-L
ROMDATA00-03 DA14,DA15-DC15<L>
ROMDATA04-15 UA12-UC15<L>
Video DATA 36bit UA00-UC11<L>
Video DATA 36bit DA00-DC11<L>
DRVCLKU0-U3,DRVCLKD0-D3
IC9504 LEVEL CONVERTER 3.3V → 5V
ODEU-R,ODEU-L,PCU1,PCU2,LEU,CLRU
IC9505 LEVEL CONVERTER 3.3V → 5V
ODED-R,ODED-L,PCD1,PCD2,LED,CLRD
IC9503 LEVEL CONVERTER 3.3V → 5V
SOS9_C0NF
Sustain Control DATA 8bit
UMH,UML,USH,USL,UEH,NUEL,URH,URL
DRV_RST
Q9401
Q9400
Scan Control DATA 13bit
CL,CLK,SIU,SID,SCSU,CEL2,CPH,CEL,CBK,CSL,CSH,CML,CMH
IC9802,03 LEVEL CONVERTER
SOS6,7,8
R-UP TO C21 D31
36bit UA00-UC11<R>
12bit UA08-UC11<L>
DOUTUA8
DOUTUC23
CLKU3-L CLKU2-L CLKU0-R CLKU1-R CLKU2-R CLKU3-R
ODEU CLRU PCU2 LEU 5VDET P5V
Q9302
TP065
L-UP TO C31 D32
24bit UA00-UC07<L>
DOUTUA0
DOUTUC7
CLKU1-L CLKU0-L ODEU CLRU PCU1 LEU 5VDET P5V
Q9301
TP063
R-DOWN TO C51 D34
36bit DA00-DC11<R>
12bit DA08-DC11<L>
DOUTDC23
DOUTDA8
CLKD3-L CLKD2-L CLKD0-R CLKD1-R CLKD2-R CLKD3-R
ODED-R CLRD PCD2 LED 5VDET P5V
Q9402
TP066
L-DOWN TO C41 D33
24bit DA00-DC07<L>
DOUTDA0
DOUTDC7
CLKD1-L CLKD0-L ODED CLRD PCD1 LED
SUSTAIN DATA
5VDET
P5V
TP9402
SOS8_SS
D20 TO SC20
SCAN DATA
P5V
SOS6-SC1
SOS7-SC2


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
TO DG5
D5
E+LVDS0 (RX_TA+)
E-LVDS0 (RX_TA-)
E+LVDS1 (RX_TB+)
E-LVDS1 (RX_TB-)
E+LVDS2 (RX_TC+)
E-LVDS2 (RX_TC-)
E+LVDS3 (RX_TD+)
E-LVDS3 (RX_TD-)
E+LVDS4 (RX_TE+)
E-LVDS4 (RX_TE-)
E+LVDSCLK (RX_TCLK+)
E-LVDSCLK (RX_TCLK-)
LVDS_DET
RA_E ± ,RB_E ± ,RC_E ± ,RD_E ± ,RE_E ±
RCLK_E ±
LVDS INPUT
LVDS
Low
Voltage
Differential
Signaling
RECEIVER
PICTURE OUTPUT<R>
R10-R19(R)
G10-G19(R)
B10-B19(R)
VD
HD
DCK
FLASH CONTROL
XCE-L,XOE
XCE-R,XWE
BYTE
PICTURE OUTPUT<L>
R10-R19(L)
G10-G19(L)
B10-B19(L)
VD
HD
DCK
R 10bit
G 10bit
B 10bit
BUS SW
FLASH CONTROL
JTAG
TD0,TD1,TMS,TCK
DISCHARGE CONTROL
FPCLK,FPDAT0,FPDAT1
SFRST,SFVRST,LATCH
LVDSCLK2
PRCKI
DATA DRIVER
Control DATA(U)
Control DATA(D)
SS PULSE
SCAN OUT SC PULSE
SC PULSE
IC9500 FPGA,ASIC
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
CONTROL
FPGA
DATA0 ASDIO NCS DCLK
IIC
SDA SCL
TSET TERMINAL
DPCLK1
RESET
NO SYNC
DRV_RST
NRST
DRVMUTE
XRST
TO DG3
D3
IIC_CLK1
IIC_DATA1
IIC_CLK2
IIC_DATA2
P3V_SCL1
P3V_SDA1
STB_SCL02
STB_SDA02
PSTB
PBUSY
PDB0
PSLCT
PDB1
STBY 5V
STBY 3.3V
STB 5V_M
STB 3.3V
DISPEN
PANEL_STBY_ON
Q9044
READY
ALARM
REMOCON
LED_R
LED_G
TXD
RXD
IIC_CONT
IIC/INT
IIC_INT
ECO_ON
TUNER_SUB_ON
ALL OFF
ALL_OFF
AC GOOD
AC_GOOD
P15V
TO P25
D25
+15V
+5V
P5V
STB5V_M
STB5V
F_STBY_ON
SOS4_PS
PANEL_MAIN_ON
VDATA_DET
FOR FACTORY USE
D6
STB3.3V
STBY3.3V
STBY5V
SCL1
SDA1
SCL2
SDA2
IC9002
DIGITAL TEMPERATURE SENSOR
SDA ADD1
SCL ADD0
IC9001
EEPROM
WP
SDA
SCL
IC9007
PROM(FPGA)
NCS
DATA
ADSI
DCLK
STB_SDA02
STB_SCL02
XRST
Q9200
Q9201
P3V_SCL02
P3V_SDA02
IC9011
STB 3.3V/RESET
STB5V
STB3.3V
VDD
VOUT
CE
RESET
D9804
Q9046
D9035
DC-DC ON
IC9800
DC-DC CONVERTER
15V → 1.2V
IC9807
DC-DC CONVERTER
15V → 3.3V
IC9809
DC-DC CONVERTER
15V → 2.5V
LDO_5V
VCC
CB
VDD
CTL
VIN
OUT1
OUT2
LX
-INC
VO
FB
G2 S2 G1 S1
D2 D2 D1 D1
Q9800
Q9803
Q9801
P1.2V
P3.3V
P2.5V
Q9805
Q9806
IC9003
MICOM
LSI_RST
XRST
PLL_RST
XRST2
STB_SCL01
IIC1_SCL
STB_SDA01
IIC1_SDA
Q9050
Q9057
Q9058
EEP_WR_CTL
IIC2_SCL
IIC2_SDA
NCS
ASDIO
DATA0
DCLK
RESET
XIN
XOUT
X9000 9.216MHz
VDATA_DET
PANEL_MAIN_ON
SOS4-PS
ALARM
READY
TXD1
RXD1
IIC_CONT
IIC_INT
LED_G
LED_R
REMOCON
REM_IN
Q9100
P_ON/OFF
SOS9_CONF
DRVRST
DRV_RST
SOS3_3V
SOS5_5V
SOS2_15V
SOS7_SC2
SOS8_SS
SOS6_SC1
SOS6,7,8
Q9054
Q9053
Q9052
Q9051
P3.3V
P+15V SOS / LED BLINKING : 2TIMES
P+3.3V SOS / LED BLINKING : 3TIMES
P+5V SOS / LED BLINKING : 5TIMES
IC9801
AVR P1.5V
P2.5V
P1.5V
IC9806
AVR 5V
LDO_5V

TH-50PV60E, TH-50PX60B
D-Board (1 of 2) Block Diagram

TH-50PV60E, TH-50PX60B
D-Board (1 of 2) Block Diagram


C1
DATA DRIVE
UPPER RIGHT (FRONT VIEW)
C10
4-18,29-35
UA16-UC21
ODEU
CLRU
PCU2
LEU
CLKU3R
CLKU2R
P+5V
+5V_DET
VDA75V
R7134
R7133
DATA 18bit
UA16 UC21
VCC
IC7101
BUFFER
UA20-UC21 6bit
UA18-UC19 6bit
UA16-UC17 6bit
6bit
CA1
CA2
CA3
PANEL DATA DRIVER
C2
DATA DRIVE
UPPER CENTER (FRONT VIEW)
C20
21-27,38-52
TO D31
C21
4-23
33-45
50-69
DOUTUA18-UC23
DOUTUA14-UC17
DOUTUA8-UC13
DATA 18bit UA18 UC23
DATA 12bit UA14 UC17
DATA 18bit UA8 UC13
CLKU0R
CLKU1R
CLKU3L
CLKU2L
18bit
IC7202
IC7201 1/2
IC7203
IC7204
IC7205
IC7206
IC7201 2/2
IC7207
IC7208
IC7209
UA20 UC21
UA18 UC19
UA16 UC17
UA14-UC15 6bit
UA12-UC13 6bit
URA10-URC11 6bit
ULA10-ULC11 6bit
UA8-UC9 6bit
PCR
PCL
C22
TO C32
CA4
CA5
CA6
CA7
C6
DATA DRIVE
LOWER RIGHT (FRONT VIEW)
C60
DA16-DC21
ODED
CLRD
PCD2
LED
CLKD3R
CLKD2R
R7633
R7632
DATA 18bit DA16 DC21
IC7601
CLKD2
CLKD3
DA20-DC21 6bit
DA18-DC19 6bit
DA16-DC17 6bit
CB1
CB2
CB3
C50
TO D34
C51
58-77
36-48
12-31
DOUTDA18-DC23
DOUTDA14-DC17
DOUTDA8-DC13
DATA 18bit DA18 DC23
DATA 12bit DA14 DC17
DATA 18bit DA8 DC13
CLKD0R
CLKD1R
CLKD3L
CLKD2L
IC7502
IC7501 1/2
IC7503
IC7504
IC7505
IC7506
IC7501 2/2
IC7507
IC7508
IC7509
DA20 DC21
DA18 DC19
DA16 DC17
DA14-DC15 6bit
DA12-DC13 6bit
DRA10-DRC11 6bit
DLA10-DLC11 6bit
DA8-DC9 6bit
C52
TO C42
CB4
CA5
CB6
CB7
C5
DATA DRIVE
LOWER CENTER (FRONT VIEW)